

**Flood Control Project Maintenance
Levee Inspections**

Fall 2013 Levee Maintenance Deficiency Summary Report

Overall LMA & Unit Ratings, including USACE Erosion Survey

Sacramento River Basin

ST0003	Overall LMA Rating	Total LMA Miles						
Sutter Maintenance Yard East Levee Sacramento River	A	27.17						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Vegetation	0.04		0.04	0.15%	0.01			
Trim / Thin Trees	0.01		0.01	0.04%				
Encroachments	0.25		0.25	0.92%	0.51	0.28		
Animal Control	0.01		0.01	0.04%				
Slope Stability	0.02		0.02	0.07%				
Erosion / Bank Caving	0.20		0.20	0.74%				
<i>Supplemental</i>								
USACE Erosion Survey	0.07		0.07	0.26%				
DWR UCIP Field Study					0.42	0.58		
<i>LMA Totals:</i>	0.60	0.00	0.60	2.21%	0.94	0.86	0.00	0.00

Unit No. 01 Sacramento River LB	Overall Unit Rating	Total Unit Miles						
ST0003	A	20.39						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Vegetation	0.01		0.01	0.05%	0.01			
Trim / Thin Trees	0.01		0.01	0.05%				
Encroachments	0.25		0.25	1.23%	0.51	0.28		
Slope Stability	0.01		0.01	0.05%				
Erosion / Bank Caving	0.20		0.20	0.98%				
<i>Supplemental</i>								
USACE Erosion Survey	0.07		0.07	0.34%				
DWR UCIP Field Study					0.42	0.58		
<i>Unit Totals:</i>	0.55	0.00	0.55	2.70%	0.94	0.86	0.00	0.00

Unit No. 02 Colusa Bypass RB	Overall Unit Rating	Total Unit Miles						
ST0003	A	2.20						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Vegetation	0.01		0.01	0.46%				
<i>Unit Totals:</i>	0.01	0.00	0.01	0.46%	0.00	0.00	0.00	0.00

Unit No. 03 Colusa Bypass LB	Overall Unit Rating	Total Unit Miles						
ST0003	A	2.28						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Vegetation	0.01		0.01	0.44%				
<i>Unit Totals:</i>	0.01	0.00	0.01	0.44%	0.00	0.00	0.00	0.00

**Flood Control Project Maintenance
Levee Inspections**

Fall 2013 Levee Maintenance Deficiency Summary Report

Overall LMA & Unit Ratings, including USACE Erosion Survey

Sacramento River Basin (cont.)

Unit No. 04 Moulton Bypass RB		Overall Unit Rating	Total Unit Miles						
ST0003		A	0.30						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence		
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles	
<i>Earthen Levee</i>									
Vegetation	0.01		0.01	3.33%					
<i>Unit Totals:</i>	0.01	0.00	0.01	3.33%	0.00	0.00	0.00	0.00	

Unit No. 05 Moulton Bypass LB		Overall Unit Rating	Total Unit Miles						
ST0003		A	2.00						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence		
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles	
<i>Earthen Levee</i>									
Animal Control	0.01		0.01	0.50%					
Slope Stability	0.01		0.01	0.50%					
<i>Unit Totals:</i>	0.02	0.00	0.02	1.00%	0.00	0.00	0.00	0.00	

**Flood Control Project Maintenance
Levee Inspections**
LMA District Cover Sheet
Fall 2013 Levee Inspection Results

Sutter Maintenance Yard East Levee Sacramento River

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)
* Overall LMA Rating (Fall Only)			A	

** Non-receipt of Summer or Winter Inspection Reports may effect overall annual rating.

*
SPRING INSPECTIONS: Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.

FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports. This rating is not intended to be an indication of risk.

Comments

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2013 Levee Inspection Results

Sutter Maintenance Yard East Levee Sacramento River

Waterway			Bank	Unit Miles
Unit No. 01 Sacramento River			Left	20.39
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			A	
Date of Inspection	03/19/2013 - 03/19/2013		11/19/2013 - 11/19/2013	
DWR Inspector	Bob Duffey		Bob Duffey	
Accompanied By	Bryan Reniff Sutter Maintenance Yard		Bryan Reniff Sutter Maintenance Yard	

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Sutter Maintenance Yard East Levee Sacramento River

Waterway					Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River					Left	20.39	11/19/2013 11/19/2013	Bob Duffey

LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
1			Earthen Levee	Operations & Maintenance Manuals	LS	A Ma		°	°	31
DWR ID: DWR_ST0003_01_s_2013_31										
2			Earthen Levee	Emergency Supplies & Equipment	LS	A Ma		°	°	32
DWR ID: DWR_ST0003_01_s_2013_32										
3			Earthen Levee	Flood Preparedness & Training	LS	A Ma		°	°	33
DWR ID: DWR_ST0003_01_s_2013_33										
4	0.08	0.14	Earthen Levee	Encroachments	WS	U En	BU : Building	39.194978 ° -121.937502 °	39.195022 ° -121.938563 °	3 Y
DWR ID: DWR_ST0003_01_s_2012_3										
5	1.11	1.11	Earthen Levee	Encroachments	LS	U En	PI : Pipe Inspector Comments: The pipe has rusted apart at the toe of the levee.	39.194105 ° 121.953558 °	39.194105 ° 121.953558 °	34
DWR ID: DWR_ST0003_01_s_2013_34										
6	1.11	1.11	Supplemental	DWR UCIP Field Study	LS	U En	Inspector Comments: FS_ID:9020 EP_NO: 9527 Repair Type: Urgent Crossing Status: Found UCIP Comments: Abandoned and plugged/capped steel pipe on WS berm. DWR leaky pipe marker on LS (12-3). Slope failure on LS. Needs capping of LS steel pipe after detailed investigation. FIELD_STRUCT_DESC: 18-inch steel pipe through the levee 12.5 feet below the crown. Gate valve on the waterward side. Vertical pump on the bank. (ABO No. 9527 - Butte Creek Farms) O&M manual 136, revision May 2011 FS Date: 12/13/2012	39.194106 ° -121.953512 °	39.194106 ° -121.953512 °	8
DWR ID: DWR_ST0003_01_f_2013_8										
7	1.11	1.11	Supplemental	DWR UCIP Field Study	LS	U En	Inspector Comments: FS_ID:9328 EP_NO: 9527 Repair Type: Urgent Crossing Status: Found UCIP Comments: Abandoned and plugged/capped steel pipe on WS berm. DWR leaky pipe marker on LS (12-3). Slope failure on LS. Needs capping of LS steel pipe after detailed investigation. FIELD_STRUCT_DESC: 18-inch steel pipe through the levee 12.5 feet below the crown. Gate valve on the waterward side. Vertical pump on the bank. (ABO No. 9527 - Butte Creek Farms). O&M manual 136, revision May 2011 FS Date: 12/13/2012	39.194106 ° -121.953512 °	39.194106 ° -121.953512 °	37
DWR ID: DWR_ST0003_01_f_2013_37										

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	20.39	11/19/2013 11/19/2013	Bob Duffey

LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	
8	1.11	1.11	Supplemental	DWR UCIP Field Study	LS	U En	Inspector Comments: FS_ID:9331 EP_NO: 9527 Repair Type: Urgent Crossing Status: Found UCIP Comments: Abandoned and plugged/capped steel pipe on WS berm. DWR leaky pipe marker on LS (12-3). Slope failure on LS. Needs capping of LS steel pipe after detailed investigation. FIELD_STRUCT_DESC: 18-inch steel pipe through the levee 12.5 feet below the crown. Gate valve on the waterward side. Vertical pump on the bank. (ABO No. 9527 - Butte Creek Farms). O&M manual 136, revision May 2011 FS Date: 12/13/2012	39.194106 ° -121.953512 °	39.194106 ° -121.953512 °	38
DWR ID: DWR_ST0003_01_f_2013_38										
9	1.11	1.11	Supplemental	DWR UCIP Field Study	LS	U En	Inspector Comments: FS_ID:16614 EP_NO: 9527 Repair Type: Urgent Crossing Status: Found UCIP Comments: Abandoned and plugged/capped steel pipe on WS berm. DWR leaky pipe marker on LS (12-3). Slope failure on LS. Needs capping of LS steel pipe after detailed investigation. 7/29/2013 Pipe does not appear to be abandoned. On the WS it appears that a smaller pipe was sleeved into the 18in. pipe and then the difference capped and welded. Pump was not running at time of inspection but LS ditch near outlet was wet. LS slope damage and leaky pipe marker are still present. FIELD_STRUCT_DESC: 18-inch steel pipe through the levee 12.5 feet below the crown. Gate valve on the waterward side. Vertical pump on the bank. (ABO No. 9527 - Butte Creek Farms). O&M manual 136, revision May 2011 FS Date: 7/30/2013 7:58:45 AM	39.194106 ° -121.953512 °	39.194106 ° -121.953512 °	39 Y
DWR ID: DWR_ST0003_01_f_2013_39										
10	1.11	1.11	Supplemental	DWR UCIP Field Study	LS	U En	Inspector Comments: FS_ID:9269 EP_NO: 9527 Repair Type: Urgent Crossing Status: Found UCIP Comments: Abandoned and plugged/capped steel pipe on WS berm. DWR leaky pipe marker on LS (12-3). Slope failure on LS. Needs capping of LS steel pipe after detailed investigation. FIELD_STRUCT_DESC: 18-inch steel pipe through the levee 12.5 feet below the crown. Gate valve on the waterward side. Vertical pump on the bank. (ABO No. 9527 - Butte Creek Farms). O&M manual 136, revision May 2011 FS Date: 12/13/2012	39.194106 ° -121.953512 °	39.194106 ° -121.953512 °	40
DWR ID: DWR_ST0003_01_f_2013_40										

* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	20.39	11/19/2013 11/19/2013	Bob Duffey

LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
11	1.11	1.11	Supplemental	DWR UCIP Field Study	LS	U En	Inspector Comments: FS_ID:8881 EP_NO: 9527 Repair Type: Urgent Crossing Status: Found UCIP Comments: Abandoned and plugged/capped steel pipe on WS berm.DWR leaky pipe marker on LS (12-3)Slope failure on LS. Needs capping of LS steel pipe after detailed investigation. FIELD_STRUCT_DESC: 18-inch steel pipe through the levee 12.5 feet below the crown. Gate valve on the waterward side. Vertical pump on the bank. (ABO No. 9527 - Butte Creek Farms) O&M manual 136, revision May 2011 FS Date: 12/13/2012	39.194106 ° -121.953512 °	39.194106 ° -121.953512 °	41
DWR ID: DWR_ST0003_01_f_2013_41										
12	1.37	1.37	Earthen Levee	Encroachments	LS	C En	PI : Pipe	39.192562 ° -121.958002 °	39.192562 ° -121.958002 °	13
DWR ID: DWR_ST0003_01_s_2012_13										
13	1.85	1.85	Supplemental	DWR UCIP Field Study	LS	U En	Inspector Comments: FS_ID:8864 EP_NO: 9543 Repair Type: Urgent Crossing Status: Found UCIP Comments: Sloughing LS slope and river bank.DWR marking for leaky pipe. FIELD_STRUCT_DESC: 14-inch steel pipe encased in concrete through the levee 12.5 feet below the crown. Slant pump mounted on pile structure on berm. Slide gate in 48-inch riser on berm, walkway to pump. Discharges into concrete distribution box at landward toe. Flap gate on the landward end. (ABO No. 9543 - Harada). O&M manual 136, revision May 2011 FS Date: 12/13/2012	39.188164 ° -121.964721 °	39.188164 ° -121.964721 °	42
DWR ID: DWR_ST0003_01_f_2013_42										
14	1.85	1.85	Supplemental	DWR UCIP Field Study	LS	U En	Inspector Comments: FS_ID:9272 EP_NO: 9543 Repair Type: Urgent Crossing Status: Found UCIP Comments: Sloughing LS slope and river bank. DWR marking for leaky pipe. FIELD_STRUCT_DESC: 14-inch steel pipe encased in concrete through the levee 12.5 feet below the crown. Slant pump mounted on pile structure on berm. Slide gate in 48-inch riser on berm, walkway to pump. Discharges into concrete distribution box at landward toe. Flap gate on the landward end. (ABO No. 9543 - Harada). O&M manual 136, revision May 2011 FS Date: 12/13/2012	39.188164 ° -121.964721 °	39.188164 ° -121.964721 °	43
DWR ID: DWR_ST0003_01_f_2013_43										

* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	20.39	11/19/2013 11/19/2013	Bob Duffey

LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	

15	1.85	1.85	Supplemental	DWR UCIP Field Study	LS	U En	Inspector Comments: FS_ID:8865 EP_NO: 9543 Repair Type: Urgent Crossing Status: Found UCIP Comments: Sloughing LS slope and river bank.DWR marking for leaky pipe. FIELD_STRUCT_DESC: 14-inch steel pipe encased in concrete through the levee 12.5 feet below the crown. Slant pump mounted on pile structure on berm. Slide gate in 48-inch riser on berm, walkway to pump. Discharges into concrete distribution box at landward toe. Flap gate on the landward end. (ABO No. 9543 - Harada). O&M manual 136, revision May 2011 FS Date: 12/13/2012	39.188164 ° -121.964721 °	39.188164 ° -121.964721 °	44
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DWR ID: DWR_ST0003_01_f_2013_44

16	1.85	1.85	Supplemental	DWR UCIP Field Study	LS	U En	Inspector Comments: FS_ID:16617 EP_NO: 9543 Repair Type: Urgent Crossing Status: Found UCIP Comments: Sloughing LS slope and river bank. DWR marking for leaky pipe.7/29/2013 Same as last inspection. FIELD_STRUCT_DESC: 14-inch steel pipe encased in concrete through the levee 12.5 feet below the crown. Slant pump mounted on pile structure on berm. Slide gate in 48-inch riser on berm, walkway to pump. Discharges into concrete distribution box at landward toe. Flap gate on the landward end. (ABO No. 9543 - Harada). O&M manual 136, revision May 2011 FS Date: 7/30/2013 8:07:46 AM	39.188164 ° -121.964721 °	39.188164 ° -121.964721 °	45
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DWR ID: DWR_ST0003_01_f_2013_45

17	1.85	1.85	Supplemental	DWR UCIP Field Study	LS	U En	Inspector Comments: FS_ID:9413 EP_NO: 9543 Repair Type: Urgent Crossing Status: Found UCIP Comments: Sloughing LS slope and river bank. DWR marking for leaky pipe. FIELD_STRUCT_DESC: 14-inch steel pipe encased in concrete through the levee 12.5 feet below the crown. Slant pump mounted on pile structure on berm. Slide gate in 48-inch riser on berm, walkway to pump. Discharges into concrete distribution box at landward toe. Flap gate on the landward end. (ABO No. 9543 - Harada). O&M manual 136, revision May 2011 FS Date: 12/13/2012	39.188164 ° -121.964721 °	39.188164 ° -121.964721 °	46 Y
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DWR ID: DWR_ST0003_01_f_2013_46

* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	20.39	11/19/2013 11/19/2013	Bob Duffey

LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	
18	1.85	1.85	Supplemental	DWR UCIP Field Study	LS	U En	Inspector Comments: FS_ID:9022 EP_NO: 9543 Repair Type: Urgent Crossing Status: Found UCIP Comments: Sloughing LS slope and river bank.DWR marking for leaky pipe. FIELD_STRUCT_DESC: 14-inch steel pipe encased in concrete through the levee 12.5 feet below the crown. Slant pump mounted on pile structure on berm. Slide gate in 48-inch riser on berm, walkway to pump. Discharges into concrete distribution box at landward toe. Flap gate on the landward end. (ABO No. 9543 - Harada). O&M manual 136, revision May 2011 FS Date: 12/13/2012	39.188164 ° -121.964721 °	39.188164 ° -121.964721 °	47
DWR ID: DWR_ST0003_01_f_2013_47										
19	3.03	3.03	Earthen Levee	Animal Control	WS	A Ma	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	39.193945 ° -121.983368 °	39.193945 ° -121.983368 °	23 Y
DWR ID: DWR_ST0003_01_s_2012_23										
20	3.06	3.12	Earthen Levee	Animal Control	LS	A Ma	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	39.194353 ° -121.983593 °	39.195200 ° -121.983993 °	24 Y
DWR ID: DWR_ST0003_01_s_2012_24										
21	3.35	3.35	Supplemental	DWR UCIP Field Study	LS	M En	Inspector Comments: FS_ID:8844 EP_NO: 9539 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - it seems that the system was originally designed for drainage, later converted into irrigation system and eventually abandoned.- 6-inch GI pipe and 18-inch PVC pipes inserted into culvert from LS (not plugged)- WS opening is plugged with concrete.- Not properly plugged from LS. FIELD_STRUCT_DESC: Abandoned and plugged 30-inch by 36-inch concrete culvert drain through the levee. Gates with 2-inch flashboards on the waterward end. (ABO No. 9539 - Locvich) 18-inch PVC pipe through culvert. 13.6 ft invert below crown. O&M manual 136, revision May 2011 FS Date: 12/13/2012	39.198180 ° -121.985557 °	39.198180 ° -121.985557 °	48
DWR ID: DWR_ST0003_01_f_2013_48										

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	20.39	11/19/2013 11/19/2013	Bob Duffey

LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	

22	3.35	3.35	Supplemental	DWR UCIP Field Study	LS	M En	Inspector Comments: FS_ID:9224 EP_NO: 9539 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - it seems that the system was originally designed for drainage, later converted into irrigation system. - 6-inch GI pipe and 18-inch PVC pipes inserted into culvert from LS (not plugged)- WS opening is plugged with concrete.- probably pump is located 350 ft from levee as seen from Google Earth Map. FIELD_STRUCT_DESC: A 30-inch by 36-inch concrete culvert drain through the levee. Gates with 2-inch flashboards on the waterward end. 18-inch PVC pipe through culvert. 13.6 ft invert below crown. (ABO No. 9539 - Locvich). O&M manual 136, revision May 2011 FS Date: 12/13/2012	39.198180 ° -121.985557 °	39.198180 ° -121.985557 °	49
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DWR ID: DWR_ST0003_01_f_2013_49

23	3.35	3.35	Supplemental	DWR UCIP Field Study	LS	M En	Inspector Comments: FS_ID:9225 EP_NO: 9539 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - it seems that the system was originally designed for drainage, later converted into irrigation system. - 6-inch GI pipe and 18-inch PVC pipes inserted into culvert from LS (not plugged)- WS opening is plugged with concrete.- probably pump is located 350 ft from levee as seen from Google Earth Map. FIELD_STRUCT_DESC: A 30-inch by 36-inch concrete culvert drain through the levee. Gates with 2-inch flashboards on the waterward end. 18-inch PVC pipe through culvert. 13.6 ft invert below crown. (ABO No. 9539 - Locvich). O&M manual 136, revision May 2011 FS Date: 12/13/2012	39.198180 ° -121.985557 °	39.198180 ° -121.985557 °	50
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DWR ID: DWR_ST0003_01_f_2013_50

24	3.35	3.35	Supplemental	DWR UCIP Field Study	LS	M En	Inspector Comments: FS_ID:9223 EP_NO: 9539 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - it seems that the system was originally designed for drainage, later converted into irrigation system. - 6-inch GI pipe and 18-inch PVC pipes inserted into culvert from LS (not plugged)- WS opening is plugged with concrete.- probably pump is located 350 ft from levee as seen from Google Earth Map. FIELD_STRUCT_DESC: A 30-inch by 36-inch concrete culvert drain through the levee. Gates with 2-inch flashboards on the waterward end. 18-inch PVC pipe through culvert. 13.6 ft invert below crown. (ABO No. 9539 - Locvich). O&M manual 136, revision May 2011 FS Date: 12/13/2012	39.198180 ° -121.985557 °	39.198180 ° -121.985557 °	51
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DWR ID: DWR_ST0003_01_f_2013_51

* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	20.39	11/19/2013 11/19/2013	Bob Duffey

LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	
25	3.35	3.35	Supplemental	DWR UCIP Field Study	LS	M En	Inspector Comments: FS_ID:16624 EP_NO: 9539 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - it seems that the system was originally designed for drainage, later converted into irrigation system. - 6-inch GI pipe and 18-inch PVC pipes inserted into culvert from LS (not plugged)- WS opening is plugged with concrete.- probably pump is located 350 ft from levee as seen from Google Earth Map.7/29/2013 Same as last inspection. FIELD_STRUCT_DESC: A 30-inch by 36-inch concrete culvert drain through the levee. Gates with 2-inch flashboards on the waterward end. 18-inch PVC pipe through culvert. 13.6 ft invert below crown. (ABO No. 9539 - Locvich). O&M manual 136, revision May 2011 FS Date: 7/30/2013 8:14:09 AM	39.198180 ° -121.985557 °	39.198180 ° -121.985557 °	52 Y
26	3.35	3.35	Supplemental	DWR UCIP Field Study	LS	M En	Inspector Comments: FS_ID:9042 EP_NO: 9539 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - it seems that the system was originally designed for drainage, later converted into irrigation system and eventually abandoned.- 6-inch GI pipe and 18-inch PVC pipes inserted into culvert from LS (not plugged)- WS opening is plugged with concrete.- Not properly plugged from LS. FIELD_STRUCT_DESC: Abandoned and plugged 30-inch by 36-inch concrete culvert drain through the levee. Gates with 2-inch flashboards on the waterward end. (ABO No. 9539 - Locvich) 18-inch PVC pipe through culvert. 13.6 ft invert below crown. O&M manual 136, revision May 2011 FS Date: 12/13/2012	39.198180 ° -121.985557 °	39.198180 ° -121.985557 °	53
27	3.78	3.78	Earthen Levee	Encroachments	LS	C En	PI : Pipe	39.204033 ° -121.982727 °	39.204033 ° -121.982727 °	35

* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	20.39	11/19/2013 11/19/2013	Bob Duffey

LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	

28	3.79	3.79	Supplemental	DWR UCIP Field Study	LS	U En	Inspector Comments: FS_ID:8843 EP_NO: 9501 Repair Type: Urgent Crossing Status: Found UCIP Comments: Concrete pit on WS berm. Concrete distribution box on LS silted and erosion around the box. Slope failure/ transverse cracks on LS levee slope. Two depressions on WS berm. FIELD_STRUCT_DESC: 16-inch steel pipe through the levee with pump house over concrete pit on berm. No control valves visible. Discharges into concrete box at the landward toe. (ABO No. 9501 - Mayfair Farms). According to Permit 9501A, it is an existing abandoned pipe located at HLM 4.37. O&M manual 136, revision May 2011. FS Date: 12/13/2012	39.204141 ° -121.982698 °	39.204141 ° -121.982698 °	54 Y
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DWR ID: DWR_ST0003_01_f_2013_54

29	3.79	3.79	Supplemental	DWR UCIP Field Study	LS	U En	Inspector Comments: FS_ID:16630 EP_NO: 9501 Repair Type: Urgent Crossing Status: Found UCIP Comments: Concrete pit on WS berm. Concrete distribution box on LS silted and erosion around the box. Slope failure/ transverse cracks on LS levee slope. Two depressions on WS berm. 7/29/2013 Repairs to LS slope and pipe are in progress. Nothing has been done yet to the WS depressions. FIELD_STRUCT_DESC: 16-inch steel pipe through the levee with pump house over concrete pit on berm. No control valves visible. Discharges into concrete box at the landward toe. (ABO No. 9501 - Mayfair Farms). According to Permit 9501A, it is an existing abandoned pipe located at HLM 4.37. O&M manual 136, revision May 2011. FS Date: 7/30/2013 8:19:48 AM	39.204141 ° -121.982698 °	39.204141 ° -121.982698 °	55
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DWR ID: DWR_ST0003_01_f_2013_55

30	3.79	3.79	Supplemental	DWR UCIP Field Study	LS	U En	Inspector Comments: FS_ID:9276 EP_NO: 9501 Repair Type: Urgent Crossing Status: Found UCIP Comments: Concrete pit on WS berm. Concrete distribution box on LS silted and erosion around the box. Slope failure/ transverse cracks on LS levee slope. Two depressions on WS berm. FIELD_STRUCT_DESC: 16-inch steel pipe through the levee with pump house over concrete pit on berm. No control valves visible. Discharges into concrete box at the landward toe. (ABO No. 9501 - Mayfair Farms). According to Permit 9501A, it is an existing abandoned pipe located at HLM 4.37. O&M manual 136, revision May 2011. FS Date: 12/13/2012	39.204141 ° -121.982698 °	39.204141 ° -121.982698 °	56
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DWR ID: DWR_ST0003_01_f_2013_56

* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	20.39	11/19/2013 11/19/2013	Bob Duffey

LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	

31	3.79	3.79	Supplemental	DWR UCIP Field Study	LS	U En	<p>Inspector Comments: FS_ID:9347 EP_NO: 9501 Repair Type: Urgent Crossing Status: Found UCIP Comments: Concrete pit on WS berm. Concrete distribution box on LS silted and erosion around the box. Slope failure/ transverse cracks on LS levee slope. Two depressions on WS berm. FIELD_STRUCT_DESC: 16-inch steel pipe through the levee with pump house over concrete pit on berm. No control valves visible. Discharges into concrete box at the landward toe. (ABO No. 9501 - Mayfair Farms). According to Permit 9501A, it is an existing abandoned pipe located at HLM 4.37. O&M manual 136, revision May 2011. FS Date: 12/13/2012</p>	39.204141 ° -121.982698 °	39.204141 ° -121.982698 °	57
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DWR ID: DWR_ST0003_01_f_2013_57

32	3.79	3.79	Supplemental	DWR UCIP Field Study	LS	U En	<p>Inspector Comments: FS_ID:16631 EP_NO: 9501 Repair Type: Urgent Crossing Status: Found UCIP Comments: Concrete pit on WS berm. Concrete distribution box on LS silted and erosion around the box. Slope failure/ transverse cracks on LS levee slope. Two depressions on WS berm. 7/29/2013 Repairs to LS slope and pipe are in progress. Nothing has been done yet to the WS depressions. FIELD_STRUCT_DESC: 16-inch steel pipe through the levee with pump house over concrete pit on berm. No control valves visible. Discharges into concrete box at the landward toe. (ABO No. 9501 - Mayfair Farms). According to Permit 9501A, it is an existing abandoned pipe located at HLM 4.37. O&M manual 136, revision May 2011. FS Date: 7/30/2013 8:21:17 AM</p>	39.204141 ° -121.982698 °	39.204141 ° -121.982698 °	58
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DWR ID: DWR_ST0003_01_f_2013_58

33	3.79	3.79	Supplemental	DWR UCIP Field Study	LS	U En	<p>Inspector Comments: FS_ID:9043 EP_NO: 9501 Repair Type: Urgent Crossing Status: Found UCIP Comments: Concrete pit on WS berm. Concrete distribution box on LS silted and erosion around the box. Slope failure/ transverse cracks on LS levee slope. Two depressions on WS berm. FIELD_STRUCT_DESC: 16-inch steel pipe through the levee with pump house over concrete pit on berm. No control valves visible. Discharges into concrete box at the landward toe. (ABO No. 9501 - Mayfair Farms). According to Permit 9501A, it is an existing abandoned pipe located at HLM 4.37. O&M manual 136, revision May 2011. FS Date: 12/13/2012</p>	39.204141 ° -121.982698 °	39.204141 ° -121.982698 °	59
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DWR ID: DWR_ST0003_01_f_2013_59

* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	20.39	11/19/2013 11/19/2013	Bob Duffey

LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	

34	3.80	3.80	Supplemental	DWR UCIP Field Study	WS	U En	Inspector Comments: FS_ID:8841 EP_NO: 9501 Repair Type: Urgent Crossing Status: Found UCIP Comments: Concrete pit on WS berm. Concrete distribution box on LS silted and erosion around the box. Slope failure/ transverse cracks on LS levee slope. Two depressions on WS berm. FIELD_STRUCT_DESC: 16-inch steel pipe through the levee with pump house over concrete pit on berm. No control valves visible. Discharges into concrete box at the landward toe. (ABO No. 9501 - Mayfair Farms). According to Permit 9501A, it is an existing abandoned pipe located at HLM 4.37. O&M manual 136, revision May 2011. FS Date: 12/13/2012	39.204136 ° -121.982675 °	39.204136 ° -121.982675 °	60
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DWR ID: DWR_ST0003_01_f_2013_60

35	4.19	4.19	Earthen Levee	Encroachments	WS	M En	BU : Building	39.208935 ° -121.985310 °	39.208935 ° -121.985310 °	11 Y
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DWR ID: DWR_ST0003_01_s_2012_11

36	4.38	4.38	Supplemental	DWR UCIP Field Study	WS	U En	Inspector Comments: FS_ID:16635 EP_NO: 9501A Repair Type: Urgent Crossing Status: Found UCIP Comments: Motor and pump on berm. Appears an abandoned crossing. Leaky valve on LS slope. Pipe removed and laying on berm. No electric connection to the pump. 7/29/2013 Not an abandoned crossing. Pump is connected to WS pipe end at water level and is pumping water to LS and then goes underground to an irrigation ditch about 100yds. upstream. Pump and pipes are disconnected and pulled up to WS toe for high water season. FIELD_STRUCT_DESC: Abandoned 10-inch diameter asphalt coated steel pipe through the levee 5 feet below the crown. Siphon breaker on the landward shoulder. (ABO No. 9501A - Mayfair Packing). FS Date: 7/30/2013 8:32:10 AM	39.210247 ° -121.988238 °	39.210247 ° -121.988238 °	61
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DWR ID: DWR_ST0003_01_f_2013_61

37	4.38	4.38	Supplemental	DWR UCIP Field Study	WS	U En	Inspector Comments: FS_ID:9065 EP_NO: 9501A Repair Type: Urgent Crossing Status: Found UCIP Comments: Motor and pump on berm. Appears an abandoned crossing. Leaky valve on LS slope. Pipe removed and laying on berm. No electric connection to the pump. FIELD_STRUCT_DESC: Abandoned 10-inch diameter asphalt coated steel pipe through the levee 5 feet below the crown. Siphon breaker on the landward shoulder. (ABO No. 9501A - Mayfair Packing). FS Date: 12/12/2012	39.210247 ° -121.988238 °	39.210247 ° -121.988238 °	62
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DWR ID: DWR_ST0003_01_f_2013_62

* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	20.39	11/19/2013 11/19/2013	Bob Duffey

LMR No.	Levee Mile		Category	Item	Location * + Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End					Start	End	

38	4.38	4.38	Supplemental	DWR UCIP Field Study	WS U En	Inspector Comments: FS_ID:8831 EP_NO: 9501A Repair Type: Urgent Crossing Status: Found UCIP Comments: Motor and pump on berm not found. Appears an abandoned crossing. Pipe removed and laying on berm. No electric connection to the pump. FIELD_STRUCT_DESC: Abandoned 10-inch diameter asphalt coated steel pipe through the levee 5 feet below the crown. Siphon breaker on the landward shoulder. (ABO No. 9501A - Mayfair Packing). FS Date: 12/12/2012	39.210247 ° -121.988238 °	39.210247 ° -121.988238 °	63
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DWR ID: DWR_ST0003_01_f_2013_63

39	4.38	4.38	Supplemental	DWR UCIP Field Study	WS U En	Inspector Comments: FS_ID:16634 EP_NO: 9501A Repair Type: Urgent Crossing Status: Found UCIP Comments: Motor and pump on berm. Appears an abandoned crossing. Leaky valve on LS slope. Pipe removed and laying on berm. No electric connection to the pump. 7/29/2013 Not an abandoned crossing. Pump is connected to WS pipe end at water level and is pumping water to LS and then goes underground to an irrigation ditch about 100yds. upstream. Pump and pipes are disconnected and pulled up to WS toe for high water season. FIELD_STRUCT_DESC: Abandoned 10-inch diameter asphalt coated steel pipe through the levee 5 feet below the crown. Siphon breaker on the landward shoulder. (ABO No. 9501A - Mayfair Packing). FS Date: 7/30/2013 8:27:05 AM	39.210247 ° -121.988238 °	39.210247 ° -121.988238 °	64
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DWR ID: DWR_ST0003_01_f_2013_64

40	4.38	4.38	Supplemental	DWR UCIP Field Study	WS U En	Inspector Comments: FS_ID:9277 EP_NO: 9501A Repair Type: Urgent Crossing Status: Found UCIP Comments: Motor and pump on berm. Appears an abandoned crossing. Leaky valve on LS slope. Pipe removed and laying on berm. No electric connection to the pump. FIELD_STRUCT_DESC: Abandoned 10-inch diameter asphalt coated steel pipe through the levee 5 feet below the crown. Siphon breaker on the landward shoulder. (ABO No. 9501A - Mayfair Packing). FS Date: 12/12/2012	39.210247 ° -121.988238 °	39.210247 ° -121.988238 °	65
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DWR ID: DWR_ST0003_01_f_2013_65

* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	20.39	11/19/2013 11/19/2013	Bob Duffey

LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	

41	4.38	4.38	Supplemental	DWR UCIP Field Study	WS	U En	Inspector Comments: FS_ID:16637 EP_NO: 9501A Repair Type: Urgent Crossing Status: Found UCIP Comments: Motor and pump on berm. Appears an abandoned crossing. Leaky valve on LS slope. Pipe removed and laying on berm. No electric connection to the pump. 7/29/2013 Not an abandoned crossing. Pump is connected to WS pipe end at water level and is pumping water to LS and then goes underground to an irrigation ditch about 100yds. upstream. Pump and pipes are disconnected and pulled up to WS toe for high water season. Leaky valve on LS shoulder does not appear to have been fixed. FIELD_STRUCT_DESC: Abandoned 10-inch diameter asphalt coated steel pipe through the levee 5 feet below the crown. Siphon breaker on the landward shoulder. (ABO No. 9501A - Mayfair Packing). FS Date: 7/30/2013 8:41:14 AM	39.210247 ° -121.988238 °	39.210247 ° -121.988238 °	66
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DWR ID: DWR_ST0003_01_f_2013_66

42	4.38	4.38	Supplemental	DWR UCIP Field Study	WS	U En	Inspector Comments: FS_ID:9351 EP_NO: 9501 Repair Type: Urgent Crossing Status: Found UCIP Comments: Need to be properly abandoned. Transverse cracks on levee road. Also found a concrete outlet on LS. It is not clear whether this passes through the levee. FIELD_STRUCT_DESC: Abandoned 16-inch steel pipe through the levee 13.9 feet below the crown. Gate valve and pump in pump house on berm. Flap gate and concrete distribution box on the landward end. (ABO No. 9501 - Mayfair Farms). O&M manual 136, revision May 2011. FS Date: 12/12/2012	39.210257 ° -121.988250 °	39.210257 ° -121.988250 °	67
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DWR ID: DWR_ST0003_01_f_2013_67

43	4.38	4.38	Supplemental	DWR UCIP Field Study	WS	U En	Inspector Comments: FS_ID:9278 EP_NO: 9501 Repair Type: Urgent Crossing Status: Found UCIP Comments: Need to be properly abandoned. Transverse cracks on levee road. Also found a concrete outlet on LS. It is not clear whether this passes through the levee. FIELD_STRUCT_DESC: Abandoned 16-inch steel pipe through the levee 13.9 feet below the crown. Gate valve and pump in pump house on berm. Flap gate and concrete distribution box on the landward end. (ABO No. 9501 - Mayfair Farms). O&M manual 136, revision May 2011. FS Date: 12/12/2012	39.210257 ° -121.988250 °	39.210257 ° -121.988250 °	68
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DWR ID: DWR_ST0003_01_f_2013_68

* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	20.39	11/19/2013 11/19/2013	Bob Duffey

LMR No.	Levee Mile		Category	Item	Location * + Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End					Start	End	

44	4.38	4.38	Supplemental	DWR UCIP Field Study	WS U En	Inspector Comments: FS_ID:16636 EP_NO: 9501 Repair Type: Urgent Crossing Status: Found UCIP Comments: Need to be properly abandoned. Transverse cracks on levee road. Also found a concrete outlet on LS. It is not clear whether this passes through the levee. 7/29/2013 Same as last inspection. FIELD_STRUCT_DESC: Abandoned 16-inch steel pipe through the levee 13.9 feet below the crown. Gate valve and pump in pump house on berm. Flap gate and concrete distribution box on the landward end. (ABO No. 9501 - Mayfair Farms). O&M manual 136, revision May 2011. FS Date: 7/30/2013 8:39:50 AM	39.210257 ° -121.988250 °	39.210257 ° -121.988250 °	69
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DWR ID: DWR_ST0003_01_f_2013_69

45	4.38	4.38	Supplemental	DWR UCIP Field Study	WS U En	Inspector Comments: FS_ID:8833 EP_NO: 9501 Repair Type: Urgent Crossing Status: Found UCIP Comments: Need to be properly abandoned. FIELD_STRUCT_DESC: Abandoned 16-inch steel pipe through the levee 13.9 feet below the crown. Gate valve and pump in pump house on berm. Flap gate and concrete distribution box on the landward end. (ABO No. 9501 - Mayfair Farms). O&M manual 136, revision May 2011. FS Date: 12/12/2012	39.210257 ° -121.988250 °	39.210257 ° -121.988250 °	70
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DWR ID: DWR_ST0003_01_f_2013_70

46	4.38	4.38	Supplemental	DWR UCIP Field Study	WS U En	Inspector Comments: FS_ID:9063 EP_NO: 9501 Repair Type: Urgent Crossing Status: Found UCIP Comments: Need to be properly abandoned. Transverse cracks on levee road. Also found a concrete outlet on LS. It is not clear whether this passes through the levee. FIELD_STRUCT_DESC: Abandoned 16-inch steel pipe through the levee 13.9 feet below the crown. Gate valve and pump in pump house on berm. Flap gate and concrete distribution box on the landward end. (ABO No. 9501 - Mayfair Farms). O&M manual 136, revision May 2011. FS Date: 12/12/2012	39.210257 ° -121.988250 °	39.210257 ° -121.988250 °	71
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DWR ID: DWR_ST0003_01_f_2013_71

* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	20.39	11/19/2013 11/19/2013	Bob Duffey

LMR No.	Levee Mile		Category	Item	* Location	** Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
47	4.39	4.39	Supplemental	DWR UCIP Field Study	WS	U En	Inspector Comments: FS_ID:9279 EP_NO: N/A Repair Type: Urgent Crossing Status: Found UCIP Comments: Debris and deteriorated concrete. Gate valve in surge tank. FIELD_STRUCT_DESC: 24 inch pipe, 26 ft invert below crown, Slide Gate ws. O&M manual 136, revision May 2011. FS Date: 12/12/2012	39.210280 ° -121.988284 °	39.210280 ° -121.988284 °	72
DWR ID: DWR_ST0003_01_f_2013_72										
48	4.39	4.39	Supplemental	DWR UCIP Field Study	WS	U En	Inspector Comments: FS_ID:16638 EP_NO: N/A Repair Type: Urgent Crossing Status: Found UCIP Comments: Debris and deteriorated concrete. Gate valve in surge tank. 7/29/2013 Same as last inspection. FIELD_STRUCT_DESC: 24 inch pipe, 26 ft invert below crown, Slide Gate ws. O&M manual 136, revision May 2011. FS Date: 7/30/2013 8:42:29 AM	39.210280 ° -121.988284 °	39.210280 ° -121.988284 °	73
DWR ID: DWR_ST0003_01_f_2013_73										
49	4.39	4.39	Supplemental	DWR UCIP Field Study	WS	U En	Inspector Comments: FS_ID:8832 EP_NO: N/A Repair Type: Urgent Crossing Status: Found UCIP Comments: Debris and deteriorated concrete. Gate valve in surge tank. FIELD_STRUCT_DESC: 24 inch pipe, 26 ft invert below crown, Slide Gate ws. O&M manual 136, revision May 2011. FS Date: 12/12/2012	39.210280 ° -121.988284 °	39.210280 ° -121.988284 °	74
DWR ID: DWR_ST0003_01_f_2013_74										
50	4.39	4.39	Supplemental	DWR UCIP Field Study	WS	U En	Inspector Comments: FS_ID:9064 EP_NO: N/A Repair Type: Urgent Crossing Status: Found UCIP Comments: Debris and deteriorated concrete. Gate valve in surge tank. FIELD_STRUCT_DESC: 24 inch pipe, 26 ft invert below crown, Slide Gate ws. O&M manual 136, revision May 2011. FS Date: 12/12/2012	39.210280 ° -121.988284 °	39.210280 ° -121.988284 °	75
DWR ID: DWR_ST0003_01_f_2013_75										

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	20.39	11/19/2013 11/19/2013	Bob Duffey

LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	

51	4.59	4.59	Supplemental	DWR UCIP Field Study	WS	U En	Inspector Comments: FS_ID:16639 EP_NO: 10935 Repair Type: Urgent Crossing Status: Found UCIP Comments: Found a siphon breaker on LS. Antenna and pump station on WS. Huge erosion on LS slope. 7/29/2013 Erosion near LS shoulder may start affecting the roadway if it gets any worse. FIELD_STRUCT_DESC: 24-inch steel pipe through the levee 4.0 feet below the crown. Slant pump on the waterward berm. A siphon breaker is installed on the apex of the pipe and off the levee crown on landside. (App. No. 10935 - Mayfair Farms). FS Date: 7/30/2013 8:44:16 AM	39.212627 ° -121.990413 °	39.212627 ° -121.990413 °	76 Y
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DWR ID: DWR_ST0003_01_f_2013_76

52	4.59	4.59	Supplemental	DWR UCIP Field Study	WS	U En	Inspector Comments: FS_ID:8830 EP_NO: 10935 Repair Type: Urgent Crossing Status: Found UCIP Comments: Found a siphon breaker on LS. Antenna and pump station on WS. Huge erosion on LS. FIELD_STRUCT_DESC: 24-inch steel pipe through the levee 4.0 feet below the crown. Slant pump on the waterward berm. A siphon breaker is installed on the apex of the pipe and off the levee crown on landside. (App. No. 10935 - Mayfair Farms). FS Date: 12/12/2012	39.212627 ° -121.990413 °	39.212627 ° -121.990413 °	77
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DWR ID: DWR_ST0003_01_f_2013_77

53	4.59	4.59	Supplemental	DWR UCIP Field Study	WS	U En	Inspector Comments: FS_ID:9066 EP_NO: 10935 Repair Type: Urgent Crossing Status: Found UCIP Comments: Found a siphon breaker on LS. Antenna and pump station on WS. Huge erosion on LS slope. FIELD_STRUCT_DESC: 24-inch steel pipe through the levee 4.0 feet below the crown. Slant pump on the waterward berm. A siphon breaker is installed on the apex of the pipe and off the levee crown on landside. (App. No. 10935 - Mayfair Farms). FS Date: 12/12/2012	39.212627 ° -121.990413 °	39.212627 ° -121.990413 °	78
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DWR ID: DWR_ST0003_01_f_2013_78

* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	20.39	11/19/2013 11/19/2013	Bob Duffey

LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
54	4.59	4.59	Supplemental	DWR UCIP Field Study	WS	U En	Inspector Comments: FS_ID:9280 EP_NO: 10935 Repair Type: Urgent Crossing Status: Found UCIP Comments: Found a siphon breaker on LS. Antenna and pump station on WS. Huge erosion on LS slope. FIELD_STRUCT_DESC: 24-inch steel pipe through the levee 4.0 feet below the crown. Slant pump on the waterward berm. A siphon breaker is installed on the apex of the pipe and off the levee crown on landside. (App. No. 10935 - Mayfair Farms). FS Date: 12/12/2012	39.212627 ° -121.990413 °	39.212627 ° -121.990413 °	79
DWR ID: DWR_ST0003_01_f_2013_79										
55	4.66	4.84	Earthen Levee	Encroachments	CR	U En	BU : Building	39.213265 ° -121.991672 °	39.213265 ° -121.991672 °	12 Y
DWR ID: DWR_ST0003_01_s_2012_12										
56	4.66	4.66	Earthen Levee	Slope Stability	WS	M Ma	S1 : Repair slope instability.	39.213271 ° -121.991676 °	39.213271 ° -121.991676 °	15 Y
DWR ID: DWR_ST0003_01_s_2013_15										
57	4.81	4.81	Earthen Levee	Encroachments	LS	U En	BU : Building	39.214168 ° -121.993515 °	39.214168 ° -121.993515 °	20 Y
DWR ID: DWR_ST0003_01_s_2012_20										
58	4.81	4.81	Earthen Levee	Vegetation	LS	M En	V6 : Landscaping	39.214218 ° -121.993682 °	39.214218 ° -121.993682 °	22
DWR ID: DWR_ST0003_01_s_2012_22										
59	4.84	4.84	Earthen Levee	Trim / Thin Trees	WS	M Ma	T1 : Trim trees to at least five feet above ground level.	39.214232 ° -121.993805 °	39.214215 ° -121.993810 °	18
DWR ID: DWR_ST0003_01_s_2012_18										
60	4.99	4.99	Supplemental	DWR UCIP Field Study	WS	U En	Inspector Comments: FS_ID:16644 EP_NO: 2904 Repair Type: Urgent Crossing Status: Found UCIP Comments: Surge box on WS and distribution box across the county road on LS. Abandoned pump station and electrical panel on WS. A concrete pump pit on WS. 7/29/2013 Portable tow-pump lowered down WS berm to water level and is pumping water into concrete surge box on WS and the filling the irrigation ditch on LS. Sink hole with standing water that is present above the outlet pipe for the WS surge box. This may indicate a leaking pipe or cracked concrete. FIELD_STRUCT_DESC: 36-inch corrugated metal pipe through the levee 18.4 feet below the crown. Slide gate in corrugate metal pipe riser on waterward shoulder, pump and concrete pump pit on the waterward bank. Concrete surge box on the waterward berm. Discharges into irrigation ditch on the opposite side of the county road. (App. No. 2904 - Arnold). Application was for an existing pumping system. O&M manual 136, revision May 2011. FS Date: 7/30/2013 8:54:46 AM	39.214970 ° -121.997177 °	39.214970 ° -121.997177 °	80
DWR ID: DWR_ST0003_01_f_2013_80										

* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	20.39	11/19/2013 11/19/2013	Bob Duffey

LMR No.	Levee Mile		Category	Item	Location *	Rating ** +	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	

61	4.99	4.99	Supplemental	DWR UCIP Field Study	WS	U En	<p>Inspector Comments: FS_ID:16643 EP_NO: 2904 Repair Type: Urgent Crossing Status: Found UCIP Comments: Surge box on WS and distribution box across the county road on LS. Abandoned pump station and electrical panel on WS. A concrete pump pit on WS. 7/29/2013 Portable tow-pump lowered down WS berm to water level and is pumping water into concrete surge box on WS and the filling the irrigation ditch on LS. Sink hole with standing water that is present above the outlet pipe for the WS surge box. This may indicate a leaking pipe or cracked concrete. FIELD_STRUCT_DESC: 36-inch corrugated metal pipe through the levee 18.4 feet below the crown. Slide gate in corrugate metal pipe riser on waterward shoulder, pump and concrete pump pit on the waterward bank. Concrete surge box on the waterward berm. Discharges into irrigation ditch on the opposite side of the county road. (App. No. 2904 - Arnold). Application was for an existing pumping system. O&M manual 136, revision May 2011. FS Date: 7/30/2013 8:49:33 AM</p>	39.214970 ° -121.997177 °	39.214970 ° -121.997177 °	81 Y
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DWR ID: DWR_ST0003_01_f_2013_81

62	5.38	5.38	Supplemental	DWR UCIP Field Study	WS	U En	<p>Inspector Comments: FS_ID:16364 EP_NO: 9514 Repair Type: Urgent Crossing Status: Found UCIP Comments: - Water transfer ditch and CMP riser on WS 7/23/13 8inch pvc running through pipe preventing slide gate from closing. No positive pipe closure for high water season. Stem on WS screw gate is bent. FIELD_STRUCT_DESC: 24-inch corrugated metal pipe through the levee, slide gate in corrugated metal pipe riser. Concrete headwall on waterward berm, pump on riverbank. Discharges in field at landward toe. Irrigation ditch across waterward berm to headwall. (ABO No. 9514 - Boggs). Pipe invert 11.0 ft below crown. O&M manual 136, revision May 2011. FS Date: 7/24/2013 6:54:19 AM</p>	39.217099 ° -122.003778 °	39.217099 ° -122.003778 °	82 Y
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DWR ID: DWR_ST0003_01_f_2013_82

* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	20.39	11/19/2013 11/19/2013	Bob Duffey

LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	

63	5.38	5.38	Supplemental	DWR UCIP Field Study	LS	U En	<p>Inspector Comments: FS_ID:16363 EP_NO: 9514 Repair Type: Urgent Crossing Status: Found UCIP Comments: - Water transfer ditch and CMP riser on WS7/23/13 8inch pvc running through pipe preventing slide gate from closing. No positive pipe closure for high water season. Stern on WS screw gate is bent. FIELD_STRUCT_DESC: 24-inch corrugated metal pipe through the levee, slide gate in corrugated metal pipe riser. Concrete headwall on waterward berm, pump on riverbank. Discharges in field at landward toe. Irrigation ditch across waterward berm to headwall. (ABO No. 9514 - Boggs). Pipe invert 11.0 ft below crown. O&M manual 136, revision May 2011. FS Date: 7/24/2013 6:51:20 AM</p>	39.217099 ° -122.003778 °	39.217099 ° -122.003778 °	83
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DWR ID: DWR_ST0003_01_f_2013_83

64	6.02	6.02	Supplemental	DWR UCIP Field Study	LS	U En	<p>Inspector Comments: FS_ID:16366 EP_NO: 9514 Repair Type: Urgent Crossing Status: Found UCIP Comments: 36-inch CMP found instead of 30-inch CMP. LS pipe tampered. 7/23/2013 8inch PVC pipe ran through 36inch CMP preventing screw gate from closing for high water season. FIELD_STRUCT_DESC: 36-inch corrugated metal drainpipe through the levee 12.0 feet below the crown. Slide gate in corrugated metal pipe riser on the waterward slope. (ABO No. 9514 - Boggs). O&M manual 136, revision May 2011. FS Date: 7/24/2013 7:01:08 AM</p>	39.220701 ° -122.002538 °	39.220701 ° -122.002538 °	84
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DWR ID: DWR_ST0003_01_f_2013_84

65	6.02	6.02	Supplemental	DWR UCIP Field Study	LS	U En	<p>Inspector Comments: FS_ID:16365 EP_NO: 9514 Repair Type: Urgent Crossing Status: Found UCIP Comments: 36-inch CMP found instead of 30-inch CMP. LS pipe tampered. 7/23/2013 8inch PVC pipe ran through 36inch CMP preventing screw gate from closing for high water season. FIELD_STRUCT_DESC: 36-inch corrugated metal drainpipe through the levee 12.0 feet below the crown. Slide gate in corrugated metal pipe riser on the waterward slope. (ABO No. 9514 - Boggs). O&M manual 136, revision May 2011. FS Date: 7/24/2013 6:59:03 AM</p>	39.220701 ° -122.002538 °	39.220701 ° -122.002538 °	85 Y
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DWR ID: DWR_ST0003_01_f_2013_85

66	6.33	6.33	Earthen Levee	Encroachments	LS	M Ma	PR : Prunings	39.223540 ° -121.999028 °	39.223540 ° -121.999028 °	14
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DWR ID: DWR_ST0003_01_s_2012_14

* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	20.39	11/19/2013 11/19/2013	Bob Duffey

LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	
67	6.34	6.34	Supplemental	DWR UCIP Field Study	WS	M En	Inspector Comments: FS_ID:9076 EP_NO: 9530 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pipe outlet on WS partially buried, it needs cleaning. FIELD_STRUCT_DESC: 30-inch corrugated metal drainpipe through the levee 15.0 feet below the crown. Slide gate in corrugated metal pipe riser on the waterward slope. (ABO No. 9530 - Halsey). FS Date: 12/12/2012	39.223796 ° -121.999014 °	39.223796 ° -121.999014 °	86 Y
DWR ID: DWR_ST0003_01_f_2013_86										
68	6.34	6.34	Supplemental	DWR UCIP Field Study	WS	M En	Inspector Comments: FS_ID:16524 EP_NO: 9530 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pipe outlet on WS partially buried, it needs cleaning. 7/23/2013 Same as last inspection FIELD_STRUCT_DESC: 30-inch corrugated metal drainpipe through the levee 15.0 feet below the crown. Slide gate in corrugated metal pipe riser on the waterward slope. (ABO No. 9530 - Halsey). FS Date: 7/25/2013 11:56:24 AM	39.223796 ° -121.999014 °	39.223796 ° -121.999014 °	87
DWR ID: DWR_ST0003_01_f_2013_87										
69	6.34	6.34	Supplemental	DWR UCIP Field Study	WS	M En	Inspector Comments: FS_ID:9228 EP_NO: 9530 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pipe outlet on WS partially buried, it needs cleaning. FIELD_STRUCT_DESC: 30-inch corrugated metal drainpipe through the levee 15.0 feet below the crown. Slide gate in corrugated metal pipe riser on the waterward slope. (ABO No. 9530 - Halsey). FS Date: 12/12/2012	39.223796 ° -121.999014 °	39.223796 ° -121.999014 °	88
DWR ID: DWR_ST0003_01_f_2013_88										
70	6.34	6.34	Supplemental	DWR UCIP Field Study	WS	M En	Inspector Comments: FS_ID:8800 EP_NO: 9530 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pipe outlet on WS partially buried, it needs cleaning. FIELD_STRUCT_DESC: 30-inch corrugated metal drainpipe through the levee 15.0 feet below the crown. Slide gate in corrugated metal pipe riser on the waterward slope. (ABO No. 9530 - Halsey). FS Date: 12/12/2012	39.223796 ° -121.999014 °	39.223796 ° -121.999014 °	89
DWR ID: DWR_ST0003_01_f_2013_89										
71	6.42	6.42	Earthen Levee	Encroachments	LS	M Ma	MA : Material	39.224982 ° -121.998600 °	39.225013 ° -121.998585 °	21 Y
DWR ID: DWR_ST0003_01_s_2012_21										

* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	20.39	11/19/2013 11/19/2013	Bob Duffey

LMR No.	Levee Mile		Category	Item	Location * + Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End					Start	End	
72	6.80	6.80	Earthen Levee	Erosion / Bank Caving	WS Ma	E2 : Schedule repair of erosion site prior to the next inspection.	39.228295 ° -121.998571 °	39.228295 ° -121.998571 °	19 Y
DWR ID: DWR_ST0003_01_s_2013_19									
73	7.72	7.72	Supplemental	DWR UCIP Field Study	WS En	Inspector Comments: FS_ID:9081 EP_NO: 9532 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Silted concrete box on WS. Depression/erosion around concrete box on WS. FIELD_STRUCT_DESC: 3-foot by 4-foot concrete box culvert drain through the levee 11.6 feet below the crown. Slide gate in concrete box on the waterward slope. (ABO No. 9532 - Martin). O&M manual 136, revision May 2011. FS Date: 12/12/2012	39.239458 ° -121.993398 °	39.239458 ° -121.993398 °	90 Y
DWR ID: DWR_ST0003_01_f_2013_90									
74	7.72	7.72	Supplemental	DWR UCIP Field Study	WS En	Inspector Comments: FS_ID:9289 EP_NO: 9532 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Silted concrete box on WS. Depression/erosion around concrete box on WS. FIELD_STRUCT_DESC: 3-foot by 4-foot concrete box culvert drain through the levee 11.6 feet below the crown. Slide gate in concrete box on the waterward slope. (ABO No. 9532 - Martin). O&M manual 136, revision May 2011. FS Date: 12/12/2012	39.239458 ° -121.993398 °	39.239458 ° -121.993398 °	91
DWR ID: DWR_ST0003_01_f_2013_91									
75	7.72	7.72	Supplemental	DWR UCIP Field Study	WS En	Inspector Comments: FS_ID:16532 EP_NO: 9532 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Silted concrete box on WS. Depression/erosion around concrete box on WS. 7/23/2013 Same as last inspection. FIELD_STRUCT_DESC: 3-foot by 4-foot concrete box culvert drain through the levee 11.6 feet below the crown. Slide gate in concrete box on the waterward slope. (ABO No. 9532 - Martin). O&M manual 136, revision May 2011. FS Date: 7/25/2013 12:06:21 PM	39.239458 ° -121.993398 °	39.239458 ° -121.993398 °	92
DWR ID: DWR_ST0003_01_f_2013_92									

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	20.39	11/19/2013 11/19/2013	Bob Duffey

LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	
76	7.72	7.72	Supplemental	DWR UCIP Field Study	WS	M En	Inspector Comments: FS_ID:8795 EP_NO: 9532 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Silted concrete box on WS. Depression/erosion around concrete box on WS. FIELD_STRUCT_DESC: 3-foot by 4-foot concrete box culvert drain through the levee 11.6 feet below the crown. Slide gate in concrete box on the waterward slope. (ABO No. 9532 - Martin). O&M manual 136, revision May 2011. FS Date: 12/12/2012	39.239458 ° -121.993398 °	39.239458 ° -121.993398 °	93
DWR ID: DWR_ST0003_01_f_2013_93										
77	8.32	8.32	Supplemental	DWR UCIP Field Study	WS	M En	Inspector Comments: FS_ID:8793 EP_NO: 9529 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Looks abandoned. CMP riser on WS. Concrete distribution box on LS- full with silt. FIELD_STRUCT_DESC: 24-inch corrugated metal pipe through the levee, slide gate CMP riser on the waterward slope. Concrete box at the landward toe. Pipe invert 12.8 ft below crown. (ABO No. 9529 - Dorwood Ranch). O&M manual 136, revision May 2011. FS Date: 12/12/2012	39.246317 ° -121.998825 °	39.246317 ° -121.998825 °	94
DWR ID: DWR_ST0003_01_f_2013_94										
78	8.32	8.32	Supplemental	DWR UCIP Field Study	WS	M En	Inspector Comments: FS_ID:16535 EP_NO: 9529 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Looks abandoned. CMP riser with slide gate on WS. Concrete distribution box on LS- full with silt. 7/23/2013 Same as last inspection. FIELD_STRUCT_DESC: 24-inch corrugated metal pipe through the levee, slide gate CMP riser on the waterward slope. Concrete box at the landward toe. Pipe invert 12.8 ft below crown. (ABO No. 9529 - Dorwood Ranch). O&M manual 136, revision May 2011. FS Date: 7/25/2013 12:09:36 PM	39.246317 ° -121.998825 °	39.246317 ° -121.998825 °	95 Y
DWR ID: DWR_ST0003_01_f_2013_95										
79	8.32	8.32	Supplemental	DWR UCIP Field Study	WS	M En	Inspector Comments: FS_ID:9083 EP_NO: 9529 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Looks abandoned. CMP riser with slide gate on WS. Concrete distribution box on LS- full with silt. FIELD_STRUCT_DESC: 24-inch corrugated metal pipe through the levee, slide gate CMP riser on the waterward slope. Concrete box at the landward toe. Pipe invert 12.8 ft below crown. (ABO No. 9529 - Dorwood Ranch). O&M manual 136, revision May 2011. FS Date: 12/12/2012	39.246317 ° -121.998825 °	39.246317 ° -121.998825 °	96
DWR ID: DWR_ST0003_01_f_2013_96										

* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	20.39	11/19/2013 11/19/2013	Bob Duffey

LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	
80	8.32	8.32	Supplemental	DWR UCIP Field Study	LS	M En	Inspector Comments: FS_ID:9291 EP_NO: 9529 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Looks abandoned. CMP riser with slide gate on WS. Concrete distribution box on LS- full with silt. FIELD_STRUCT_DESC: 24-inch corrugated metal pipe through the levee, slide gate CMP riser on the waterward slope. Concrete box at the landward toe. Pipe invert 12.8 ft below crown. (ABO No. 9529 - Dorwood Ranch). O&M manual 136, revision May 2011. FS Date: 12/12/2012	39.246317 ° -121.998825 °	39.246317 ° -121.998825 °	97
DWR ID: DWR_ST0003_01_f_2013_97										
81	8.76	8.76	Earthen Levee	Encroachments	LS	U En	BU : Building	39.252260 ° -121.997721 °	39.252260 ° -121.997721 °	2 Y
DWR ID: DWR_ST0003_01_s_2012_2										
82	9.23	9.23	Earthen Levee	Encroachments	LS	M Ma	PR : Prunings	39.257977 ° -122.000322 °	39.257977 ° -122.000322 °	1 Y
DWR ID: DWR_ST0003_01_s_2012_1										
83	10.27	10.27	Earthen Levee	Encroachments	LS	M En	BU : Building	39.270431 ° -121.999782 °	39.270431 ° -121.999782 °	4
DWR ID: DWR_ST0003_01_s_2012_4										
84	10.36	10.36	Earthen Levee	Vegetation	LS	M Ma	V4 : Elderberries are blocking visibility and flood fight capability.	39.270503 ° -122.001339 °	39.270503 ° -122.001339 °	5
DWR ID: DWR_ST0003_01_s_2012_5										
85	10.46	10.46	Supplemental	USACE Erosion Survey	WSA/W	Ma	Inspector Comments: 2009 - Toe erosion and sliding cobbles. 2012: Old cobbles failed but bank is stable, site removed. [2012 Site ID: SAC_150-2_L]	39.271494 ° -122.003497 °	39.271307 ° -122.003295 °	27 Y
DWR ID:										
86	11.51	11.51	Supplemental	USACE Erosion Survey	WS	M Ma	Inspector Comments: 2008 - Large rotational/mass failure in the bank with tree slump. 2009 - Minimal new erosion, the tree is leaning further into the river. 2011 - Site extended downstream. 2012: Minor new erosion and tree roots are further exposed. [2012 Site ID: SAC_152-6_L]	39.283853 ° -122.016113 °	39.279910 ° -122.018221 °	28 Y
DWR ID:										
87	11.67	11.90	Earthen Levee	Encroachments	LS	M En	DT : Ditch	39.282064 ° -122.016517 °	39.285084 ° -122.014815 °	6
DWR ID: DWR_ST0003_01_s_2012_6										
88	11.83	11.89	Supplemental	USACE Erosion Survey	WS	M Ma	Inspector Comments: 2006 - Large rotational/mass failure in the bank with tree slump. Tough clayey toe material. 2007 - Site is between stone revetments with a pump station at the downstream end. 2010 - Erosion is into the levee toe. 2011 - Minor new erosion. 2012: Minor new erosion. [2012 Site ID: SAC_152-8_L]	39.285298 ° -122.015208 °	39.284568 ° -122.015690 °	29 Y
DWR ID:										
89	11.95	12.18	Earthen Levee	Encroachments	LS	M En	DT : Ditch	39.285658 ° -122.014574 °	39.288978 ° -122.013892 °	7
DWR ID: DWR_ST0003_01_s_2012_7										

* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	20.39	11/19/2013 11/19/2013	Bob Duffey

LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	

90	12.06	12.06	Supplemental	DWR UCIP Field Study	LS	M En	Inspector Comments: FS_ID:8921 EP_NO: 9514 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Gate valve in CMP riser not visible. Flap gate in concrete distribution box on LS not visible/accessible. Looks cleaning required inside concrete surge tank on WS due to silting. FIELD_STRUCT_DESC: 36-inch corrugated metal pipe through the levee, 18.1 feet below the crown, pump house on the waterward slope. Gate valve in corrugated metal riser at waterward toe. Flap gate in concrete distribution box at the landward toe. (ABO No. 9514 - Boggs). O&M manual 136, revision May 2011. FS Date: 12/11/2012	39.287251 ° -122.014076 °	39.287251 ° -122.014076 °	98
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DWR ID: DWR_ST0003_01_f_2013_98

91	12.06	12.06	Supplemental	DWR UCIP Field Study	LS	M En	Inspector Comments: FS_ID:16647 EP_NO: 9514 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Gate valve in CMP riser not visible. Flap gate in concrete distribution box on LS not visible/accessible. Looks cleaning required inside concrete surge tank on WS due to silting. 7/29/2013 Pump running and WS surge tank was full of water so not sure if silt was cleaned out. LS flap gate was visible and is in good condition. FIELD_STRUCT_DESC: 36-inch corrugated metal pipe through the levee, 18.1 feet below the crown, pump house on the waterward slope. Gate valve in corrugated metal riser at waterward toe. Flap gate in concrete distribution box at the landward toe. (ABO No. 9514 - Boggs). O&M manual 136, revision May 2011. FS Date: 7/30/2013 8:59:36 AM	39.287251 ° -122.014076 °	39.287251 ° -122.014076 °	99
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DWR ID: DWR_ST0003_01_f_2013_99

92	12.06	12.06	Supplemental	DWR UCIP Field Study	LS	M En	Inspector Comments: FS_ID:9100 EP_NO: 9514 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Gate valve in CMP riser not visible. Flap gate in concrete distribution box on LS not visible/accessible. Looks cleaning required inside concrete surge tank on WS due to silting. FIELD_STRUCT_DESC: 36-inch corrugated metal pipe through the levee, 18.1 feet below the crown, pump house on the waterward slope. Gate valve in corrugated metal riser at waterward toe. Flap gate in concrete distribution box at the landward toe. (ABO No. 9514 - Boggs). O&M manual 136, revision May 2011. FS Date: 12/11/2012	39.287251 ° -122.014076 °	39.287251 ° -122.014076 °	100
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DWR ID: DWR_ST0003_01_f_2013_100

* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	20.39	11/19/2013 11/19/2013	Bob Duffey

LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	

93	12.06	12.06	Supplemental	DWR UCIP Field Study	LS	M En	Inspector Comments: FS_ID:9390 EP_NO: 9514 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Gate valve in CMP riser not visible. Flap gate in concrete distribution box on LS not visible/accessible. Looks cleaning required inside concrete surge tank on WS due to silting. FIELD_STRUCT_DESC: 36-inch corrugated metal pipe through the levee, 18.1 feet below the crown, pump house on the waterward slope. Gate valve in corrugated metal riser at waterward toe. Flap gate in concrete distribution box at the landward toe. (ABO No. 9514 - Boggs). O&M manual 136, revision May 2011. FS Date: 12/11/2012	39.287251 ° -122.014076 °	39.287251 ° -122.014076 °	101 Y
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DWR ID: DWR_ST0003_01_f_2013_101

94	12.06	12.06	Supplemental	DWR UCIP Field Study	LS	M En	Inspector Comments: FS_ID:9297 EP_NO: 9514 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Gate valve in CMP riser not visible. Flap gate in concrete distribution box on LS not visible/accessible. Looks cleaning required inside concrete surge tank on WS due to silting. FIELD_STRUCT_DESC: 36-inch corrugated metal pipe through the levee, 18.1 feet below the crown, pump house on the waterward slope. Gate valve in corrugated metal riser at waterward toe. Flap gate in concrete distribution box at the landward toe. (ABO No. 9514 - Boggs). &M manual 136, revision May 2011. FS Date: 12/11/2012	39.287251 ° -122.014076 °	39.287251 ° -122.014076 °	102
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DWR ID: DWR_ST0003_01_f_2013_102

95	12.06	12.06	Supplemental	DWR UCIP Field Study	LS	M En	Inspector Comments: FS_ID:8741 EP_NO: 9514 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Gate valve in CMP riser not visible. Flap gate in concrete distribution box on LS not visible/accessible. Looks cleaning required inside concrete surge tank on WS due to silting. FIELD_STRUCT_DESC: 36-inch corrugated metal pipe through the levee, 18.1 feet below the crown, pump house on the waterward slope. Gate valve in corrugated metal riser at waterward toe. Flap gate in concrete distribution box at the landward toe. (ABO No. 9514 - Boggs). O&M manual 136, revision May 2011. FS Date: 12/11/2012	39.287258 ° -122.014097 °	39.287258 ° -122.014097 °	103
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DWR ID: DWR_ST0003_01_f_2013_103

* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	20.39	11/19/2013 11/19/2013	Bob Duffey

LMR No.	Levee Mile		Category	Item	Location * + Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End					Start	End	

96	12.43	12.43	Supplemental	DWR UCIP Field Study	LS U En	<p>Inspector Comments: FS_ID:16648 EP_NO: 9513 Repair Type: Urgent Crossing Status: Found UCIP Comments: A 2.5 inch GI pipe through 36 inch CMP found. A 2 inch electrical conduit also found.7/29/2013 2.5in. GI pipe and chain in WS surge box will prevent slide gate from closing fully for high water season. FIELD_STRUCT_DESC: 24-inch corrugated metal pipe through the levee. Slide gate in concrete surge box on berm. Slant pump on riverbank. Pipe invert 16.5 ft below crown. Concrete distribution box at the landward toe. (ABO No. 9513 -Boggs). O&M manual 136, revision May 2011. FS Date: 7/30/2013 9:01:52 AM</p>	39.292608 ° -122.013483 °	39.292608 ° -122.013483 °	104 Y
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DWR ID: DWR_ST0003_01_f_2013_104

97	12.43	12.43	Supplemental	DWR UCIP Field Study	LS U En	<p>Inspector Comments: FS_ID:16649 EP_NO: 9513 Repair Type: Urgent Crossing Status: Found UCIP Comments: A 2.5 inch GI pipe through 36 inch CMP found. A 2 inch electrical conduit also found.7/29/2013 2.5in. GI pipe and chain in WS surge box will prevent slide gate from closing fully for high water season. FIELD_STRUCT_DESC: 24-inch corrugated metal pipe through the levee. Slide gate in concrete surge box on berm. Slant pump on riverbank. Pipe invert 16.5 ft below crown. Concrete distribution box at the landward toe. (ABO No. 9513 -Boggs). O&M manual 136, revision May 2011. FS Date: 7/30/2013 9:05:45 AM</p>	39.292608 ° -122.013483 °	39.292608 ° -122.013483 °	105
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DWR ID: DWR_ST0003_01_f_2013_105

98	12.43	12.43	Supplemental	DWR UCIP Field Study	LS U En	<p>Inspector Comments: FS_ID:16650 EP_NO: 9513 Repair Type: Urgent Crossing Status: Found UCIP Comments: A 2.5 inch GI pipe through 36 inch CMP found. A 2 inch electrical conduit also found.7/29/2013 2.5in. GI pipe and chain in WS surge box will prevent slide gate from closing fully for high water season. FIELD_STRUCT_DESC: 24-inch corrugated metal pipe through the levee. Slide gate in concrete surge box on berm. Slant pump on riverbank. Pipe invert 16.5 ft below crown. Concrete distribution box at the landward toe. (ABO No. 9513 -Boggs). O&M manual 136, revision May 2011. FS Date: 7/30/2013 9:11:08 AM</p>	39.292608 ° -122.013483 °	39.292608 ° -122.013483 °	106
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DWR ID: DWR_ST0003_01_f_2013_106

* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	20.39	11/19/2013 11/19/2013	Bob Duffey

LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	

99	12.96	12.96	Supplemental	DWR UCIP Field Study	LS	U En	Inspector Comments: FS_ID:8605 EP_NO: 9510 Repair Type: Urgent Crossing Status: Found UCIP Comments: Soil around CMP riser and surge concrete box on WS damaged due to overflow.Pump not found. FIELD_STRUCT_DESC: 36-inch corrugated metal pipe through the levee, 18.0 feet below the crown. Slide gate in 36-inch corrugated metal riser on the waterward slope. Concrete box on the waterward side. Pump mounted on waterward bank. (ABO No. 9510 & Forry). O&M manual 136, revision May 2011. FS Date: 12/10/2012	39.300140 ° -122.013599 °	39.300140 ° -122.013599 °	107
DWR ID: DWR_ST0003_01_f_2013_107										
100	12.96	12.96	Supplemental	DWR UCIP Field Study	LS	U En	Inspector Comments: FS_ID:9404 EP_NO: 9510 Repair Type: Urgent Crossing Status: Found UCIP Comments: Soil erosion around CMP riser and surge concrete box on WS damaged due to overflow. Pump not found. Flap gate missing on WS concrete box. WS slope eroded. Structure might have been used as drainage structure. This needs to be determined during routine inspection. FIELD_STRUCT_DESC: 36-inch corrugated metal pipe through the levee, 18.0 feet below the crown. Slide gate in 36-inch corrugated metal riser on the waterward slope. Concrete box on the waterward side. Pump mounted on waterward bank. (ABO No. 9510 Forry). O&M manual 136, revision May 2011. FS Date: 12/10/2012	39.300140 ° -122.013599 °	39.300140 ° -122.013599 °	108
DWR ID: DWR_ST0003_01_f_2013_108										
101	12.96	12.96	Supplemental	DWR UCIP Field Study	LS	U En	Inspector Comments: FS_ID:9244 EP_NO: 9510 Repair Type: Urgent Crossing Status: Found UCIP Comments: Soil erosion around CMP riser and surge concrete box on WS damaged due to overflow. Pump not found. Flap gate missing on WS concrete box. WS slope eroded. Structure might have been used as drainage structure. This needs to be determined during routine inspection. FIELD_STRUCT_DESC: 36-inch corrugated metal pipe through the levee, 18.0 feet below the crown. Slide gate in 36-inch corrugated metal riser on the waterward slope. Concrete box on the waterward side. Pump mounted on waterward bank. (ABO No. 9510 & Forry). O&M manual 136, revision May 2011. FS Date: 12/10/2012	39.300140 ° -122.013599 °	39.300140 ° -122.013599 °	109
DWR ID: DWR_ST0003_01_f_2013_109										

* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	20.39	11/19/2013 11/19/2013	Bob Duffey

LMR No.	Levee Mile		Category	Item	Location *	Rating ** +	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	

102	12.96	12.96	Supplemental	DWR UCIP Field Study	LS	U En	Inspector Comments: FS_ID:16560 EP_NO: 9510 Repair Type: Urgent Crossing Status: Found UCIP Comments: Soil erosion around CMP riser and surge concrete box on WS damaged due to overflow. Pump not found. Flap gate missing on WS concrete box. WS slope eroded. Structure might have been used as drainage structure. This needs to be determined during routine inspection. 7/23/2013 Water was flowing from the WS to LS ditch. Not sure where water flow was originating. All erosion problems are still present. FIELD_STRUCT_DESC: 36-inch corrugated metal pipe through the levee, 18.0 feet below the crown. Slide gate in 36-inch corrugated metal riser on the waterward slope. Concrete box on the waterward side. Pump mounted on waterward bank. (ABO No. 9510 Forry). O&M manual 136, revision May 2011. FS Date: 7/25/2013 12:43:03 PM	39.300140 ° -122.013599 °	39.300140 ° -122.013599 °	110 Y
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DWR ID: DWR_ST0003_01_f_2013_110

103	12.96	12.96	Supplemental	DWR UCIP Field Study	LS	U En	Inspector Comments: FS_ID:8609 EP_NO: 9510 Repair Type: Urgent Crossing Status: Found UCIP Comments: Soil around CMP riser and surge concrete box on WS damaged due to overflow. Pump not found. Flap gate missing on WS concrete box. WS slope eroded. Structure might have been used as drainage structure. This needs to be determined during periodic inspection. FIELD_STRUCT_DESC: 36-inch corrugated metal pipe through the levee, 18.0 feet below the crown. Slide gate in 36-inch corrugated metal riser on the waterward slope. Concrete box on the waterward side. Pump mounted on waterward bank. (ABO No. 9510 Forry). O&M manual 136, revision May 2011. FS Date: 12/10/2012	39.300140 ° -122.013599 °	39.300140 ° -122.013599 °	111
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DWR ID: DWR_ST0003_01_f_2013_111

* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	20.39	11/19/2013 11/19/2013	Bob Duffey

LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	

104	12.96	12.96	Supplemental	DWR UCIP Field Study	LS	U En	Inspector Comments: FS_ID:16559 EP_NO: 9510 Repair Type: Urgent Crossing Status: Found UCIP Comments: Soil erosion around CMP riser and surge concrete box on WS damaged due to overflow. Pump not found. Flap gate missing on WS concrete box. WS slope eroded. Structure might have been used as drainage structure. This needs to be determined during routine inspection. 7/23/2013 Water was flowing from the WS to LS ditch. Not sure where water flow was originating. All erosion problems are still present. FIELD_STRUCT_DESC: 36-inch corrugated metal pipe through the levee, 18.0 feet below the crown. Slide gate in 36-inch corrugated metal riser on the waterward slope. Concrete box on the waterward side. Pump mounted on waterward bank. (ABO No. 9510 Forry). O&M manual 136, revision May 2011. FS Date: 12/10/2012	39.300140 ° -122.013599 °	39.300140 ° -122.013599 °	112
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DWR ID: DWR_ST0003_01_f_2013_112

105	12.96	12.96	Supplemental	DWR UCIP Field Study	LS	U En	Inspector Comments: FS_ID:9104 EP_NO: 9510 Repair Type: Urgent Crossing Status: Found UCIP Comments: Soil erosion around CMP riser and surge concrete box on WS damaged due to overflow. Pump not found. Flap gate missing on WS concrete box. WS slope eroded. Structure might have been used as drainage structure. This needs to be determined during routine inspection. FIELD_STRUCT_DESC: 36-inch corrugated metal pipe through the levee, 18.0 feet below the crown. Slide gate in 36-inch corrugated metal riser on the waterward slope. Concrete box on the waterward side. Pump mounted on waterward bank. (ABO No. 9510 Forry). O&M manual 136, revision May 2011. FS Date: 12/10/2012	39.300140 ° -122.013599 °	39.300140 ° -122.013599 °	113
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DWR ID: DWR_ST0003_01_f_2013_113

106	13.37	13.37	Supplemental	DWR UCIP Field Study	LS	M En	Inspector Comments: FS_ID:16561 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Outlet pipe silted on WS. Inlet structure damaged on LS. Not properly abandoned. 7/23/2013 Same as last inspection. FIELD_STRUCT_DESC: Abandoned 48-inch corrugated metal drainpipe through the levee, 16.5 feet below the crown. Slide gate in 60-inch corrugated metal pipe riser on the waterward slope. Landward end of pipe on east side of River Road. O&M manual 136, revision May 2011. FS Date: 7/25/2013 12:44:54 PM	39.306065 ° -122.013112 °	39.306065 ° -122.013112 °	114
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DWR ID: DWR_ST0003_01_f_2013_114

* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	20.39	11/19/2013 11/19/2013	Bob Duffey

LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	

107	13.37	13.37	Supplemental	DWR UCIP Field Study	LS	M En	Inspector Comments: FS_ID:9124 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - outlet pipe silted on WS.- inlet structure damaged on LS.- not properly abandoned. FIELD_STRUCT_DESC: Abandoned 48-inch corrugated metal drainpipe through the levee, 16.5 feet below the crown. Slide gate in 60-inch corrugated metal pipe riser on the waterward slope. Landward end of pipe on east side of River Road. O&M manual 136, revision May 2011. FS Date: 12/10/2012	39.306065 ° -122.013112 °	39.306065 ° -122.013112 °	115 Y
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DWR ID: DWR_ST0003_01_f_2013_115

108	13.37	13.37	Supplemental	DWR UCIP Field Study	LS	M En	Inspector Comments: FS_ID:9300 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Outlet pipe silted on WS. Inlet structure damaged on LS. Not properly abandoned. FIELD_STRUCT_DESC: Abandoned 48-inch corrugated metal drainpipe through the levee, 16.5 feet below the crown. Slide gate in 60-inch corrugated metal pipe riser on the waterward slope. Landward end of pipe on east side of River Road. O&M manual 136, revision May 2011. FS Date: 12/10/2012	39.306065 ° -122.013112 °	39.306065 ° -122.013112 °	116
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DWR ID: DWR_ST0003_01_f_2013_116

109	13.37	13.37	Supplemental	DWR UCIP Field Study	LS	M En	Inspector Comments: FS_ID:8604 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - outlet pipe silted on WS.- inlet structure damaged on LS.- not properly abandoned. FIELD_STRUCT_DESC: Abandoned 48-inch corrugated metal drainpipe through the levee, 16.5 feet below the crown. Slide gate in 60-inch corrugated metal pipe riser on the waterward slope. Landward end of pipe on east side of River Road. O&M manual 136, revision May 2011. FS Date: 12/10/2012	39.306065 ° -122.013112 °	39.306065 ° -122.013112 °	117
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DWR ID: DWR_ST0003_01_f_2013_117

* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	20.39	11/19/2013 11/19/2013	Bob Duffey

LMR No.	Levee Mile		Category	Item	* Location	** Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
110	13.37	13.37	Supplemental	DWR UCIP Field Study	WS	M En	Inspector Comments: FS_ID:8603 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - outlet pipe silted on LS.- inlet structure damaged.- not properly abandoned. FIELD_STRUCT_DESC: Abandoned 48-inch corrugated metal drainpipe through the levee, 16.5 feet below the crown. Slide gate in 60-inch corrugated metal pipe riser on the waterward slope. Landward end of pipe on east side of River Road. O&M manual 136, revision May 2011. FS Date: 12/10/2012	39.306065 ° -122.013112 °	39.306065 ° -122.013112 °	118
DWR ID: DWR_ST0003_01_f_2013_118										
111	13.37	13.37	Supplemental	DWR UCIP Field Study	WS	M En	Inspector Comments: FS_ID:9246 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - outlet pipe silted on WS.- inlet structure damaged on LS.- not properly abandoned. FIELD_STRUCT_DESC: Abandoned 48-inch corrugated metal drainpipe through the levee, 16.5 feet below the crown. Slide gate in 60-inch corrugated metal pipe riser on the waterward slope. Landward end of pipe on east side of River Road. O&M manual 136, revision May 2011. FS Date: 12/10/2012	39.306065 ° -122.013112 °	39.306065 ° -122.013112 °	119
DWR ID: DWR_ST0003_01_f_2013_119										
112	13.47	13.66	Earthen Levee	Erosion / Bank Caving	WS	M Ma	E1 : Note and monitor erosion site.	39.307448 ° -122.013037 °	39.310231 ° -122.012912 °	9 Y
DWR ID: DWR_ST0003_01_s_2012_9										
113	14.55	14.55	Earthen Levee	Encroachments	WS	U En	PI : Pipe	39.322254 ° -122.015985 °	39.322254 ° -122.015985 °	25 Y
DWR ID: DWR_ST0003_01_s_2013_25										
114	15.47	15.47	Supplemental	DWR UCIP Field Study	WS	M En	Inspector Comments: FS_ID:8568 EP_NO: 9506 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Water full on inlet and outlet of the structure. FIELD_STRUCT_DESC: 24-inch pipe through the levee, 16.5 feet below crown. Pump in floodway. Irrigation transfer ditch on the waterward side to concrete surge box at the waterward toe. Slide gates in corrugated metal pipe riser on the waterward slope. Discharge into concrete distribution box at the landward toe. (ABO No. 9506 - Carter). O&M manual 136, revision May 2011. FS Date: 12/10/2012	39.333868 ° -122.022243 °	39.333868 ° -122.022243 °	120 Y
DWR ID: DWR_ST0003_01_f_2013_120										

* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	20.39	11/19/2013 11/19/2013	Bob Duffey

LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
115	15.47	15.47	Supplemental	DWR UCIP Field Study	LS	M En	Inspector Comments: FS_ID:16567 EP_NO: 9506 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Water full on inlet and outlet of the structure. 7/23/2013 Same as last inspection. FIELD_STRUCT_DESC: 24-inch pipe through the levee, 16.5 feet below crown. Pump in floodway. Irrigation transfer ditch on the waterward side to concrete surge box at the waterward toe. Slide gates in corrugated metal pipe riser on the waterward slope. Discharge into concrete distribution box at the landward toe. (ABO No. 9506 - Carter). O&M manual 136, revision May 2011. FS Date: 7/25/2013 12:59:19 PM	39.333868 ° -122.022243 °	39.333868 ° -122.022243 °	121
DWR ID: DWR_ST0003_01_f_2013_121										
116	15.47	15.47	Supplemental	DWR UCIP Field Study	LS	M En	Inspector Comments: FS_ID:9165 EP_NO: 9506 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Water full on inlet and outlet of the structure. FIELD_STRUCT_DESC: 24-inch pipe through the levee, 16.5 feet below crown. Pump in floodway. Irrigation transfer ditch on the waterward side to concrete surge box at the waterward toe. Slide gates in corrugated metal pipe riser on the waterward slope. Discharge into concrete distribution box at the landward toe. (ABO No. 9506 - Carter). O&M manual 136, revision May 2011. FS Date: 12/10/2012	39.333868 ° -122.022243 °	39.333868 ° -122.022243 °	122
DWR ID: DWR_ST0003_01_f_2013_122										
117	16.95	16.95	Earthen Levee	Encroachments	LS	M En	PR : Prunings	39.347308 ° -122.015264 °	39.347308 ° -122.015264 °	36 Y
DWR ID: DWR_ST0003_01_f_2012_36										
118	17.44	17.44	Earthen Levee	Encroachments	LS	M En	PR : Prunings	39.351311 ° -122.009409 °	39.351311 ° -122.009409 °	30 Y
DWR ID: DWR_ST0003_01_s_2013_30										
119	17.45	17.45	Earthen Levee	Encroachments	LS	M En	PR : Prunings	39.351447 ° -122.009385 °	39.351447 ° -122.009385 °	136 Y
DWR ID: DWR_ST0003_01_f_2013_136										
120	18.00	18.08	Earthen Levee	Encroachments	LS	M Ma	FW : Firewood	39.358956 ° -122.007492 °	39.359565 ° -122.006219 °	10
DWR ID: DWR_ST0003_01_s_2012_10										
121	18.04	18.18	Earthen Levee	Encroachments	LS	M Ma	EQ : Equipment	39.359188 ° -122.006878 °	39.359980 ° -122.004517 °	16 Y
DWR ID: DWR_ST0003_01_s_2012_16										

* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	20.39	11/19/2013 11/19/2013	Bob Duffey

LMR No.	Levee Mile		Category	Item	* Location	** Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	

122	18.65	18.65	Supplemental	DWR UCIP Field Study	LS	U En	Inspector Comments: FS_ID:16580 EP_NO: N/A Repair Type: Urgent Crossing Status: Found UCIP Comments: It is not an abandoned crossing. Sloughing at outlet and levee slope is damaged due to sloughing. 7/24/2013 Same as last inspection. FIELD_STRUCT_DESC: A 36- inch corrugated metal drainpipe through the levee, 20.0 feet below the crown. Slide gate at the waterward toe. O&M manual 136, revision May 2011. FS Date: 7/25/2013 1:12:40 PM	39.362866 ° -121.997993 °	39.362866 ° -121.997993 °	123
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DWR ID: DWR_ST0003_01_f_2013_123

123	18.65	18.65	Supplemental	DWR UCIP Field Study	LS	U En	Inspector Comments: FS_ID:9304 EP_NO: N/A Repair Type: Urgent Crossing Status: Found UCIP Comments: It is not an abandoned crossing. Sloughing at outlet and levee slope is damaged due to sloughing. FIELD_STRUCT_DESC: A 36- inch corrugated metal drainpipe through the levee, 20.0 feet below the crown. Slide gate at the waterward toe. O&M manual 136, revision May 2011. FS Date: 11/27/2012	39.362866 ° -121.997993 °	39.362866 ° -121.997993 °	124
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DWR ID: DWR_ST0003_01_f_2013_124

124	18.65	18.65	Supplemental	DWR UCIP Field Study	LS	U En	Inspector Comments: FS_ID:8200 EP_NO: N/A Repair Type: Urgent Crossing Status: Found UCIP Comments: It is not an abandoned crossing. Sloughing at outlet and levee slope is damaged due to sloughing. FIELD_STRUCT_DESC: A 36- inch corrugated metal drainpipe through the levee, 20.0 feet below the crown. Slide gate at the waterward toe. O&M manual 136, revision May 2011. FS Date: 11/27/2012	39.362866 ° -121.997993 °	39.362866 ° -121.997993 °	125 Y
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DWR ID: DWR_ST0003_01_f_2013_125

125	18.65	18.65	Supplemental	DWR UCIP Field Study	LS	U En	Inspector Comments: FS_ID:8182 EP_NO: N/A Repair Type: Urgent Crossing Status: Found UCIP Comments: It is not an abandoned crossing. Sloughing at outlet and levee slope is damaged due to sloughing. FIELD_STRUCT_DESC: A 36- inch corrugated metal drainpipe through the levee, 20.0 feet below the crown. Slide gate at the waterward toe. O&M manual 136, revision May 2011. FS Date: 11/27/2012	39.362866 ° -121.997993 °	39.362866 ° -121.997993 °	126
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DWR ID: DWR_ST0003_01_f_2013_126

* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Sutter Maintenance Yard East Levee Sacramento River

DWR ID: DWR_ST0003_01_f_2013_129

Page 33 of 51

Levee Inspection Report By Mile - Fall 2013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	20.39	11/19/2013 11/19/2013	Bob Duffey

MIR No.	Levee Mile		Category	Item	* Location	+ Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
129	18.74	18.74	Supplemental	DWR UCIP Field Study	WS	M En	Inspector Comments: FS_ID:16581 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: According to local people, the crossing is functional. The gap between 8-inch and 24-inch pipes is grouted with cement. Inlet structure is filled with soil.7/24/2013 Same as last inspection. FIELD_STRUCT_DESC: A 8-inch steel pipe sleeved into 24- inch corrugated metal drain pipe through the levee, 19.0 feet below the crown. Slide gate at waterward toe and concrete inlet box on landside of the levee. O&M manual 136, revision May 2011. FS Date: 7/25/2013 1:14:07 PM	39.364067 ° -121.997792 °	39.364067 ° -121.997792 °	130
								DWR ID: DWR_ST0003_01_f_2013_130		
130	18.80	18.80	Earthen Levee	Animal Control	WS	C Ma	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	39.364865 ° -121.997788 °	39.364865 ° -121.997788 °	26
								DWR ID: DWR_ST0003_01_f_2013_26		
131	19.62	19.62	Supplemental	DWR UCIP Field Study	WS	M En	Inspector Comments: FS_ID:16586 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Slide Gate WS not found. An abandoned pump and steel pipe found on WS. A 6 ft x 8 ft concrete distribution box with a CMP found on LS. Box filled with soil. An abandoned crossing.7/24/2013 Same as last inspection. FIELD_STRUCT_DESC: 36 inch pipe, 21.7 ft invert below crown. O&M manual 136, revision May 2011. FS Date: 7/25/2013 1:18:28 PM	39.375221 ° -121.995878 °	39.375221 ° -121.995878 °	131 Y
								DWR ID: DWR_ST0003_01_f_2013_131		
132	19.62	19.62	Supplemental	DWR UCIP Field Study	WS	M En	Inspector Comments: FS_ID:8164 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Slide Gate WS not found. An abandoned pump and steel pipe found on WS. A 6 ft x 8 ft concrete distribution box with a CMP found on LS. Box filled with soil. An abandoned crossing. FIELD_STRUCT_DESC: 36 inch pipe, 21.7 ft invert below crown, O&M manual 136, revision May 2011. FS Date: 11/27/2012	39.375221 ° -121.995878 °	39.375221 ° -121.995878 °	132
								DWR ID: DWR_ST0003_01_f_2013_132		

* Location	** Rating	+ Issue Type
LS : Land Side	A : Acceptable	Ma : Maintenance Deficiency
WS : Water Side	N : Not Inspected/Rated	Ob : Design & System Obsolescence
CR : Crown	M : Minimally Acceptable	En : Enforcement
	C : Corrected	
	U : Unacceptable	
	A/W : Accepted but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	20.39	11/19/2013 11/19/2013	Bob Duffey

LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	

133	19.62	19.62	Supplemental	DWR UCIP Field Study	WS	M En	Inspector Comments: FS_ID:9305 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Slide Gate WS not found. An abandoned pump and steel pipe found on WS. A 6 ft x 8 ft concrete distribution box with a CMP found on LS. Box filled with soil. An abandoned crossing. FIELD_STRUCT_DESC: 36 inch pipe, 21.7 ft invert below crown. O&M manual 136, revision May 2011. FS Date: 11/27/2012	39.375221 ° -121.995878 °	39.375221 ° -121.995878 °	133
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DWR ID: DWR_ST0003_01_f_2013_133

134	19.62	19.62	Supplemental	DWR UCIP Field Study	WS	M En	Inspector Comments: FS_ID:8163 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Slide Gate WS not found. An abandoned pump and steel pipe found on WS. A 6 ft x 8 ft concrete distribution box with a CMP found on LS. Box filled with soil. An abandoned crossing. FIELD_STRUCT_DESC: 36 inch pipe, 21.7 ft invert below crown, O&M manual 136, revision May 2011. FS Date: 11/27/2012	39.375221 ° -121.995878 °	39.375221 ° -121.995878 °	134
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DWR ID: DWR_ST0003_01_f_2013_134

135	20.04	20.04	Supplemental	DWR UCIP Field Study	WS	M En	Inspector Comments: FS_ID:8160 EP_NO: 9496 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Only one pump found on WS. An abandoned surge box found on WS and pipe is grouted with cement. Two 16-inch steel pipe found on pump station along with two electrical conduits. A concrete distribution box found on LS with 20-inch CMP. Appears abandoned crossing. FIELD_STRUCT_DESC: 20-inch corrugated metal pipe through the levee, 19.8 feet below the crown. Two vertical pumps on pile structure on the waterward bank. Slide gate in concrete surge box on the waterward berm. Discharges into concrete distribution box on the landward side across the county road. Switch board on platform on bank. (ABO No. 9496 Womble). O&M manual 136, revision May 2011. FS Date: 11/27/2012	39.380501 ° -121.993546 °	39.380501 ° -121.993546 °	135 Y
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DWR ID: DWR_ST0003_01_f_2013_135

* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	20.39	11/19/2013 11/19/2013	Bob Duffey

Levee Mile Report Line	4
Start Levee Mile	0.08
End Levee Mile	0.14
Location	Water Side
Category	Earthen Levee
Item	Encroachments

View of a old building next to the landside toe.

rduffey_f_20130919_794.jpg



Levee Mile Report Line	9
Start Levee Mile	1.11
End Levee Mile	1.11
Location	Water Side
Category	Supplemental
Item	DWR UCIP Field Study

Waterside view: overview of walkway and pump

UCIP_9539.jpg



Levee Mile Report Line	17
Start Levee Mile	1.85
End Levee Mile	1.85
Location	Water Side
Category	Supplemental
Item	DWR UCIP Field Study

Waterside view: abandoned pump station and walkway

UCIP_5676.jpg



*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	20.39	11/19/2013 11/19/2013	Bob Duffey

Levee Mile Report Line	19
Start Levee Mile	3.03
End Levee Mile	3.03
Location	Water Side
Category	Earthen Levee
Item	Animal Control

View of the grouted rodent holes.

rduffey_f_20131122_191.JPG



Levee Mile Report Line	20
Start Levee Mile	3.06
End Levee Mile	3.12
Location	Land Side
Category	Earthen Levee
Item	Animal Control

View of the rodent holes & bait station.

rduffey_f_20130919_804.jpg



Levee Mile Report Line	20
Start Levee Mile	3.06
End Levee Mile	3.12
Location	Land Side
Category	Earthen Levee
Item	Animal Control

View of the grouted rodent holes.

rduffey_f_20131122_190.JPG



*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	20.39	11/19/2013 11/19/2013	Bob Duffey

Levee Mile Report Line	25
Start Levee Mile	3.35
End Levee Mile	3.35
Location	Water Side
Category	Supplemental
Item	DWR UCIP Field Study

Landside view: overview- concrete culvert and pipes

UCIP_9553.jpg



Levee Mile Report Line	28
Start Levee Mile	3.79
End Levee Mile	3.79
Location	Water Side
Category	Supplemental
Item	DWR UCIP Field Study

Waterside view: overview of pipe and pump house

UCIP_5087.jpg



Levee Mile Report Line	35
Start Levee Mile	4.19
End Levee Mile	4.19
Location	Water Side
Category	Earthen Levee
Item	Encroachments

View of the trailer next to the W/S toe.

rduffey_f_20130919_796.jpg



*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	20.39	11/19/2013 11/19/2013	Bob Duffey

Levee Mile Report Line	39
Start Levee Mile	4.38
End Levee Mile	4.38
Location	Water Side
Category	Supplemental
Item	DWR UCIP Field Study

Waterside view: overview of pump and abandoned pipe

UCIP_9576.jpg



Levee Mile Report Line	51
Start Levee Mile	4.59
End Levee Mile	4.59
Location	Water Side
Category	Supplemental
Item	DWR UCIP Field Study

Waterside view: overview of pump station

UCIP_9624.jpg



Levee Mile Report Line	55
Start Levee Mile	4.66
End Levee Mile	4.84
Location	Crown
Category	Earthen Levee
Item	Encroachments

View of the barn on the large crown of the levee.

rduffey_f_20130919_797.jpg



* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	20.39	11/19/2013 11/19/2013	Bob Duffey

Levee Mile Report Line	56
Start Levee Mile	4.66
End Levee Mile	4.66
Location	Water Side
Category	Earthen Levee
Item	Slope Stability

View of the erosion along the waterside slope.

rduffey_f_20130919_798.JPG



Levee Mile Report Line	57
Start Levee Mile	4.81
End Levee Mile	4.81
Location	Land Side
Category	Earthen Levee
Item	Encroachments

View of the building next to the L/S toe.

rduffey_f_20130919_801.jpg



Levee Mile Report Line	61
Start Levee Mile	4.99
End Levee Mile	4.99
Location	Land Side
Category	Supplemental
Item	DWR UCIP Field Study

Waterside view: closer look at surge box

UCIP_9633.jpg



* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	20.39	11/19/2013 11/19/2013	Bob Duffey

Levee Mile Report Line	62
Start Levee Mile	5.38
End Levee Mile	5.38
Location	Land Side
Category	Supplemental
Item	DWR UCIP Field Study

Waterside view: slanted pump and service poll (electric cable is not connected to switch board)

UCIP_9114.jpg



Levee Mile Report Line	65
Start Levee Mile	6.02
End Levee Mile	6.02
Location	Land Side
Category	Supplemental
Item	DWR UCIP Field Study

Waterside view: overview

UCIP_9124.jpg



Levee Mile Report Line	67
Start Levee Mile	6.34
End Levee Mile	6.34
Location	Land Side
Category	Supplemental
Item	DWR UCIP Field Study

Waterside view: CMP riser with slide gate

UCIP_5167.jpg



*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	20.39	11/19/2013 11/19/2013	Bob Duffey

Levee Mile Report Line	71
Start Levee Mile	6.42
End Levee Mile	6.42
Location	Land Side
Category	Earthen Levee
Item	Encroachments

View of the material & garbage along the toe.

rduffey_f_20130919_802.jpg



Levee Mile Report Line	72
Start Levee Mile	6.80
End Levee Mile	6.80
Location	Water Side
Category	Earthen Levee
Item	Erosion / Bank Caving

Erosion along the waterside crown.

rduffey_f_20130919_800.JPG



Levee Mile Report Line	73
Start Levee Mile	7.72
End Levee Mile	7.72
Location	Water Side
Category	Supplemental
Item	DWR UCIP Field Study

Waterside view: concrete box with slide gate

UCIP_5175.jpg



*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	20.39	11/19/2013 11/19/2013	Bob Duffey

Levee Mile Report Line	78
Start Levee Mile	8.32
End Levee Mile	8.32
Location	Water Side
Category	Supplemental
Item	DWR UCIP Field Study

Waterside view: overview of CMP riser

UCIP_9480.jpg



Levee Mile Report Line	81
Start Levee Mile	8.76
End Levee Mile	8.76
Location	Land Side
Category	Earthen Levee
Item	Encroachments

View of the building next to the toe of the levee.

rduffey_f_20130919_793.jpg



Levee Mile Report Line	82
Start Levee Mile	9.23
End Levee Mile	9.23
Location	Land Side
Category	Earthen Levee
Item	Encroachments

View of the prunings along the L/S toe.

rduffey_f_20130919_792.jpg



* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	20.39	11/19/2013 11/19/2013	Bob Duffey

Levee Mile Report Line	85
Start Levee Mile	10.46
End Levee Mile	10.46
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2012 Photo #1

USACE2013_SAC_150-2_L_1.jpg



Levee Mile Report Line	86
Start Levee Mile	11.51
End Levee Mile	11.51
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2012 Photo #1

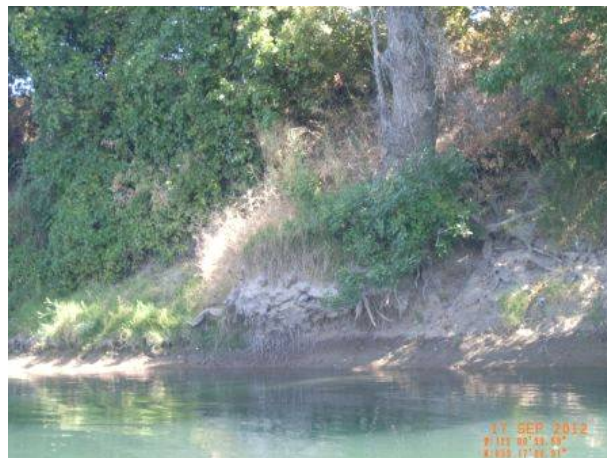
USACE2013_SAC_152-6_L_1.jpg



Levee Mile Report Line	86
Start Levee Mile	11.51
End Levee Mile	11.51
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2012 Photo #2

USACE2013_SAC_152-6_L_2.jpg



* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	20.39	11/19/2013 11/19/2013	Bob Duffey

Levee Mile Report Line	86
Start Levee Mile	11.51
End Levee Mile	11.51
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2012 Photo #3

USACE2013_SAC_152-6_L_3.jpg



Levee Mile Report Line	86
Start Levee Mile	11.51
End Levee Mile	11.51
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2012 Photo #4

USACE2013_SAC_152-6_L_4.jpg



Levee Mile Report Line	88
Start Levee Mile	11.83
End Levee Mile	11.89
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2012 Photo #1

USACE2013_SAC_152-8_L_1.jpg



* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	20.39	11/19/2013 11/19/2013	Bob Duffey

Levee Mile Report Line	88
Start Levee Mile	11.83
End Levee Mile	11.89
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2012 Photo #2

USACE2013_SAC_152-8_L_2.jpg



Levee Mile Report Line	88
Start Levee Mile	11.83
End Levee Mile	11.89
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2012 Photo #3

USACE2013_SAC_152-8_L_3.jpg



Levee Mile Report Line	93
Start Levee Mile	12.06
End Levee Mile	12.06
Location	Water Side
Category	Supplemental
Item	DWR UCIP Field Study

Waterside view: steel pipe, pump, surge box & CMP riser

UCIP_5656.jpg



* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	20.39	11/19/2013 11/19/2013	Bob Duffey

Levee Mile Report Line	96
Start Levee Mile	12.43
End Levee Mile	12.43
Location	Water Side
Category	Supplemental
Item	DWR UCIP Field Study

Waterside view: pump station and walkway

UCIP_9658.jpg



Levee Mile Report Line	102
Start Levee Mile	12.96
End Levee Mile	12.96
Location	Water Side
Category	Supplemental
Item	DWR UCIP Field Study

Waterside view: CMP riser on levee slope.

UCIP_9494.jpg



Levee Mile Report Line	107
Start Levee Mile	13.37
End Levee Mile	13.37
Location	Water Side
Category	Supplemental
Item	DWR UCIP Field Study

Waterside view: overview of CMP riser and outlet pipe

UCIP_5224.jpg



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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	20.39	11/19/2013 11/19/2013	Bob Duffey

Levee Mile Report Line	112
Start Levee Mile	13.47
End Levee Mile	13.66
Location	Water Side
Category	Earthen Levee
Item	Erosion / Bank Caving

View of the erosion along the W/S toe.

rduffey_f_20130919_795.jpg



Levee Mile Report Line	113
Start Levee Mile	14.55
End Levee Mile	14.55
Location	Water Side
Category	Earthen Levee
Item	Encroachments

View of the unauthorized pipe placed inside the drain pipe.

rduffey_f_20130919_805.JPG



Levee Mile Report Line	114
Start Levee Mile	15.47
End Levee Mile	15.47
Location	Water Side
Category	Supplemental
Item	DWR UCIP Field Study

Waterside view: CMP riser, inlet box and water transfer ditch

UCIP_5308.jpg



*** Location**

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+ Issue Type

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Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	20.39	11/19/2013 11/19/2013	Bob Duffey

Levee Mile Report Line	117
Start Levee Mile	16.95
End Levee Mile	16.95
Location	Land Side
Category	Earthen Levee
Item	Encroachments

View of the brush pile along the landside toe.

rduffey_f_20130919_816.JPG



Levee Mile Report Line	118
Start Levee Mile	17.44
End Levee Mile	17.44
Location	Land Side
Category	Earthen Levee
Item	Encroachments

View of the walnut orchard stumps along the landside toe.

rduffey_f_20130919_814.JPG



Levee Mile Report Line	119
Start Levee Mile	17.45
End Levee Mile	17.45
Location	Land Side
Category	Earthen Levee
Item	Encroachments

View of the prunings at the toe of the levee.

rduffey_f_20131122_189.JPG



*** Location**

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+ Issue Type

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	20.39	11/19/2013 11/19/2013	Bob Duffey

Levee Mile Report Line	121
Start Levee Mile	18.04
End Levee Mile	18.18
Location	Land Side
Category	Earthen Levee
Item	Encroachments

View of the equipment and trees next to the landside toe of the levee.

rduffey_f_20130919_799.jpg



Levee Mile Report Line	124
Start Levee Mile	18.65
End Levee Mile	18.65
Location	Land Side
Category	Supplemental
Item	DWR UCIP Field Study

Waterside view: overview of sliding gate structure

UCIP_4143.jpg



Levee Mile Report Line	128
Start Levee Mile	18.74
End Levee Mile	18.74
Location	Land Side
Category	Supplemental
Item	DWR UCIP Field Study

Landside view: overview of inlet structure

UCIP_4127.jpg



*** Location**

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+ Issue Type

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	20.39	11/19/2013 11/19/2013	Bob Duffey

Levee Mile Report Line	131
Start Levee Mile	19.62
End Levee Mile	19.62
Location	Land Side
Category	Supplemental
Item	DWR UCIP Field Study

Waterside view: overview

UCIP_9527.jpg



Levee Mile Report Line	135
Start Levee Mile	20.04
End Levee Mile	20.04
Location	Land Side
Category	Supplemental
Item	DWR UCIP Field Study

Waterside view: overview

UCIP_4099.jpg



*** Location**

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A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2013 Levee Inspection Results

Sutter Maintenance Yard East Levee Sacramento River

Waterway			Bank	Unit Miles
Unit No. 02 Colusa Bypass			Right	2.20
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			A	
Date of Inspection	03/19/2013 - 03/19/2013		10/15/2013 - 10/15/2013	
DWR Inspector	Bob Duffey		Bob Duffey	
Accompanied By	Bryan Reniff Sutter Maintenance Yard		Bryan Reniff Sutter Maintenance Yard	

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

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If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Colusa Bypass	Right	2.20	10/15/2013 10/15/2013	Bob Duffey

LMR No.	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	
1	0.01	0.01	Earthen Levee	Vegetation	LS	M Ma	V4 : Elderberries are blocking visibility and flood fight capability.	39.232058 ° -121.995514 °	39.232058 ° -121.995514 °	1 Y
DWR ID: DWR_ST0003_02_s_2012_1										
2	0.45	0.45	Earthen Levee	Vegetation	LS	A Ma	V1 : Control annual grass and weeds on the levee slopes and easements. Inspector Comments: Sutter Yard has burned both slope.	39.231399 ° -121.987615 °	39.231399 ° -121.987615 °	2 Y
DWR ID: DWR_ST0003_02_f_2013_2										

*** Location**

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Colusa Bypass	Right	2.20	10/15/2013 10/15/2013	Bob Duffey

Levee Mile Report Line	1
Start Levee Mile	0.01
End Levee Mile	0.01
Location	Land Side
Category	Earthen Levee
Item	Vegetation

View of the elderberries along the landside toe of the levee.

rduffey_f_20130919_817.jpg



Levee Mile Report Line	2
Start Levee Mile	0.45
End Levee Mile	0.45
Location	Land Side
Category	Earthen Levee
Item	Vegetation

Sutter Yard burned both slopes of the levee.

rduffey_f_20131015_081.JPG



*** Location**

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Ob : Design & System Obsolescence
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**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2013 Levee Inspection Results

Sutter Maintenance Yard East Levee Sacramento River

Waterway			Bank	Unit Miles
Unit No. 03 Colusa Bypass			Left	2.28
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			A	
Date of Inspection	03/19/2013 - 03/19/2013		10/15/2013 - 10/15/2013	
DWR Inspector	Bob Duffey		Bob Duffey	
Accompanied By	Bryan Reniff Sutter Maintenance Yard		Bryan Reniff Sutter Maintenance Yard	

Summer & Winter Inspections

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Sutter Maintenance Yard East Levee Sacramento River

Waterway						Bank	Unit Miles	Inspection Start/End	Inspector	
Unit No. 03 Colusa Bypass						Left	2.28	10/15/2013 10/15/2013	Bob Duffey	

LMR No.	Levee Mile		Category	Item	Location *	Rating +	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
1	0.56	0.56	Earthen Levee	Vegetation	LS	A Ma	V1 : Control annual grass and weeds on the levee slopes and easements. Inspector Comments: Sutter Yard has burned both slope.	39.237265 ° -121.983907 °	39.237265 ° -121.983907 °	13 Y
DWR ID: DWR_ST0003_03_f_2013_13										
2	0.72	0.72	Earthen Levee	Encroachments	LS	C En	TR : Tree or limb	39.237854 ° -121.980985 °	39.237854 ° -121.980985 °	1
DWR ID: DWR_ST0003_03_s_2013_1										
3	1.98	1.98	Earthen Levee	Vegetation	LS	M Ma	V4 : Elderberries are blocking visibility and flood fight capability.	39.244888 ° -121.965595 °	39.244888 ° -121.965595 °	10 Y
DWR ID: DWR_ST0003_03_s_2012_10										

*** Location**

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A/W : Acceptable but Monitor & Maintain

+ Issue Type

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Ob : Design & System Obsolescence
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Colusa Bypass	Left	2.28	10/15/2013 10/15/2013	Bob Duffey

Levee Mile Report Line	1
Start Levee Mile	0.56
End Levee Mile	0.56
Location	Land Side
Category	Earthen Levee
Item	Vegetation

Sutter Yard burned both sides of the levee.

rduffey_f_20131015_082.JPG



Levee Mile Report Line	3
Start Levee Mile	1.98
End Levee Mile	1.98
Location	Land Side
Category	Earthen Levee
Item	Vegetation

View of the elderberries along the landside toe of the levee.

rduffey_f_20130919_819.jpg



* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2013 Levee Inspection Results

Sutter Maintenance Yard East Levee Sacramento River

Waterway			Bank	Unit Miles
Unit No. 04 Moulton Bypass			Right	0.30
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			A	
Date of Inspection	03/20/2013 - 03/20/2013		11/19/2013 - 11/19/2013	
DWR Inspector	Bob Duffey		Bob Duffey	
Accompanied By	Bryan Reniff Sutter Maintenance Yard		Bryan Reniff Sutter Maintenance Yard	

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Moulton Bypass	Right	0.30	11/19/2013 11/19/2013	Bob Duffey

LMR No.	Levee Mile		Category	Item	Location *	Rating ** +	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
1	0.02	0.02	Earthen Levee	Vegetation	WS	M Ma	V4 : Elderberries are blocking visibility and flood fight capability.	39.338141 ° -122.021852 °	39.338141 ° -122.021852 °	2 Y
DWR ID: DWR_ST0003_04_s_ 2012_2										
2	0.18	0.18	Earthen Levee	Vegetation	LS	A Ma	V1 : Control annual grass and weeds on the levee slopes and easements.	39.337155 ° -122.019133 °	39.337155 ° -122.019133 °	1 Y
DWR ID: DWR_ST0003_04_f_ 2013_1										

*** Location**

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WS : Water Side
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+ Issue Type

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Moulton Bypass	Right	0.30	11/19/2013 11/19/2013	Bob Duffey

Levee Mile Report Line	1
Start Levee Mile	0.02
End Levee Mile	0.02
Location	Water Side
Category	Earthen Levee
Item	Vegetation

View of an elderberry bush by the waterside toe.

rduffey_f_20130919_820.jpg



Levee Mile Report Line	2
Start Levee Mile	0.18
End Levee Mile	0.18
Location	Land Side
Category	Earthen Levee
Item	Vegetation

View of the both slopes burned and dragged.

rduffey_f_20131122_196.JPG



*** Location**

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+ Issue Type

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**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2013 Levee Inspection Results

Sutter Maintenance Yard East Levee Sacramento River

Waterway			Bank	Unit Miles
Unit No. 05 Moulton Bypass			Left	2.00
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			A	
Date of Inspection	03/20/2013 - 03/20/2013		11/19/2013 - 11/19/2013	
DWR Inspector	Bob Duffey		Bob Duffey	
Accompanied By	Bryan Reniff Sutter Maintenance Yard		Bryan Reniff Sutter Maintenance Yard	

Summer & Winter Inspections

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Sutter Maintenance Yard East Levee Sacramento River

Waterway							Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 Moulton Bypass							Left	2.00	11/19/2013 11/19/2013	Bob Duffey
LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
1	0.03	0.03	Earthen Levee	Vegetation	LS	A Ma	V1 : Control annual grass and weeds on the levee slopes and easements.	39.346912 ° -122.015686 °	39.346912 ° -122.015686 °	3 Y
								DWR ID: DWR_ST0003_05_f_2013_3		
2	0.77	0.77	Earthen Levee	Animal Control	LS	M Ma	A2 : Repair the levee slope damaged by livestock and prevent large animal access.	39.340822 ° -122.009453 °	39.340822 ° -122.009453 °	1 Y
								DWR ID: DWR_ST0003_05_s_2013_1		
3	0.77	0.77	Earthen Levee	Slope Stability	LS	M Ma	S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.	39.340822 ° -122.009452 °	39.340822 ° -122.009452 °	2 Y
								DWR ID: DWR_ST0003_05_s_2013_2		
4	0.85	0.85	Earthen Levee	Animal Control	LS	C Ma	A1 : Exterminate rodents and backfill and compact or grout burrows.	39.340210 ° -122.008117 °	39.340210 ° -122.008117 °	4
								DWR ID: DWR_ST0003_05_s_2012_4		
5	0.85	0.85	Earthen Levee	Animal Control	WSA/W	A1 : Exterminate rodents and backfill and compact or grout burrows.	39.340213 ° -122.008113 °	39.340213 ° -122.008113 °	5 Y	
								DWR ID: DWR_ST0003_05_s_2012_5		
6	1.06	1.06	Earthen Levee	Animal Control	WS	C Ma	A1 : Exterminate rodents and backfill and compact or grout burrows.	39.338748 ° -122.004700 °	39.338748 ° -122.004700 °	6
								DWR ID: DWR_ST0003_05_s_2012_6		

*** Location**

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WS : Water Side
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+ Issue Type

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 Moulton Bypass	Left	2.00	11/19/2013 11/19/2013	Bob Duffey

Levee Mile Report Line	1
Start Levee Mile	0.03
End Levee Mile	0.03
Location	Land Side
Category	Earthen Levee
Item	Vegetation

View of the both slopes burned and dragged.

rduffey_f_20131122_192.JPG



Levee Mile Report Line	2
Start Levee Mile	0.77
End Levee Mile	0.77
Location	Land Side
Category	Earthen Levee
Item	Animal Control

View of the damage to the levee caused by the landowners livestock on both slopes.

rduffey_f_20130919_821.JPG



Levee Mile Report Line	3
Start Levee Mile	0.77
End Levee Mile	0.77
Location	Land Side
Category	Earthen Levee
Item	Slope Stability

View of the repaired rodent holes and bait station along the landside slope.

rduffey_f_20130919_822.JPG



*** Location**

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WS : Water Side
CR : Crown

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A/W : Acceptable but Monitor & Maintain

+ Issue Type

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 Moulton Bypass	Left	2.00	11/19/2013 11/19/2013	Bob Duffey

Levee Mile Report Line	5
Start Levee Mile	0.85
End Levee Mile	0.85
Location	Water Side
Category	Earthen Levee
Item	Animal Control

View of the grouted rodent holes.

rduffey_f_20131122_194.JPG



*** Location**

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WS : Water Side
CR : Crown

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+ Issue Type

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